



## 23rd World Congress on Ultrasound in Obstetrics and Gynecology

6–9 October 2013, Sydney, Australia

Incorporating the ASUM 43rd Annual Scientific Meeting

# Final Program

*Up to 32 CPD credits*  
ACEM, ACRRM, ASAR, ASUM, RANZCOG



Join the conversation!



# Welcome to ISUOG!

**ISUOG are delighted you could join us for our 23rd World Congress; the leading event in women's imaging.**

All full paying delegates receive one year's ISUOG membership available from now until the end of 2014. As well as access to the Congress web portal and all Congress lectures, there are many great ways to use your ISUOG membership.

### Education

- Reduced fees to ISUOG's intensive courses
- ISUOG support for teaching programs
- Opportunities to participate in ISUOG Outreach projects

### Web resources

Unlimited online access to:

- 350+ web lectures and webcasts from all ISUOG education courses
- World Congress presentations via multimedia platform **ISUOG OnDemand**
- **visuog**: a new visual encyclopedia for ultrasound in obstetrics and gynecology

### Events

Reduced fees to ISUOG events:

- International Symposium in Beijing, 26-28 April 2014.
- 24th World Congress in Barcelona, 14-17 September 2014.

### Journal

- Online access to *Ultrasound in Obstetrics and Gynecology*, the leading peer reviewed journal in its field (you may need to upgrade your membership to receive the journal).



Upgrade your ISUOG membership online now at [isuog.org](http://isuog.org)



**Would you like to receive your own copy of UOG?**

Upgrade to FULL membership to continue receiving all these great offers, plus your own copy of the journal *Ultrasound in Obstetrics & Gynecology (UOG)* published monthly.

To find out more about ISUOG and your member benefits, visit the **ISUOG lounge** in the **Bayside Grand Hall** or contact us at [info@isuog.org](mailto:info@isuog.org). We look forward to meeting you!

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## Organising Committees

### Congress Chairs

- A. Ngu, Melbourne
- J. Hyett, Sydney
- G. Condous, Sydney

### Local Organising Committee

#### Australia

- J. Dickinson, Perth
- H.P. Dietz, Sydney
- J. Ludlow, Sydney
- R. Mogra, Sydney
- S. Piessens, Melbourne
- V. Pincham, Sydney
- S. Walker, Melbourne

### Advisory Board

- L. De Crespigny, Australia
- N. Fisk, Australia
- A. Khurana, India
- G. Kossoff, Australia
- K. Kumar, Malaysia
- K.Y. Leung, China
- G. Parry, New Zealand
- L. Platt, USA
- D. Pugash, Canada
- W. Sepulveda, Chile
- B. Trudinger, Australia

### Meeting Planning Committee

- A. Gagnon (Chair), Canada
- A. Abuhamad, USA
- J. Copel, USA
- E. Gratacós, Spain
- T.K. Lau, China
- A. Ngu, Australia
- A. Tabor, Denmark
- G. Yeo, Singapore

### ISUOG President

- Y. Ville, France

### ISUOG Scientific Committee

- E. Gratacós (Chair), Spain
- A. Baschat, USA
- C. Bilardo, Netherlands
- T. Bourne, UK
- D. Fischerová, Czech Republic
- J. Hyett, Australia
- K. Maršál, Sweden
- A. Papageorghiou, UK

### ASUM President

- A. Goudie, Australia

### ASUM Scientific Committee

- D. Coghlan, Australia
- S. Westerway, Australia

### ISUOG Secretariat, UK

- S. Johnson, Executive Director
- M. Chard & D. Long, Event Managers

### ASUM Secretariat, Australia

- A. Gibbins, Chief Executive Officer

## Welcome message

Welcome to Sydney, the most iconic city in Australia. On behalf of the Congress committees, we are delighted to be hosting the 23rd World Congress on Ultrasound in Obstetrics and Gynecology.

This is the second time that the conference has come down under and for the first time this year, we are pleased to be presenting the Congress in partnership with ASUM. In incorporating the ASUM 43rd Annual Scientific Meeting, we are confident our program has achieved a new, enriching balance between world-class local speakers and international expertise, as well as bringing general ultrasound to our sonographer audiences.

Our committees have designed a program for this congress that is second to none, built from a careful selection of over 550 abstracts. Alongside new research presentations, our extensive invited faculty will be presenting on the current state of the art via keynote lectures, live scans, a wide variety of 'meet the professor' sessions and focused workshops. I think that you will all be pleasantly surprised.

We want to thank all of you for participating, especially to those of you who are presenting research papers, thank you for sharing your work with us.

Beyond the formal conference, we hope you will take time out to visit some of the iconic sites and world famous restaurants in Sydney. We sincerely wish all of you a memorable visit and hope you will learn a lot, meet up with old friends, make new ones and have fun at the event.

## Enjoy Sydney!



**Andrew Ngu**  
Congress Co-Chair



**John Hyett**  
Congress Co-Chair



**George Condous**  
Congress Co-Chair



## Critical dates and times

### Registration opening hours

Saturday 5 October	07:00 - 17:30
Sunday 6 October	08:00 - 20:00
Monday 7 October	07:30 - 18:30
Tuesday 8 October	07:30 - 18:00
Wednesday 9 October	07:30 - 18:00

The registration area is located in the Bayside Foyer on the ground floor of the Sydney Convention and Exhibition Centre (SCEC).

### Exhibition opening hours

Sunday 6 October	10:00 - 20:30
Monday 7 October	09:30 - 16:30
Tuesday 8 October	09:30 - 16:30
Wednesday 9 October	09:30 - 16:00

The exhibition is located in the Bayside Grand Hall on the ground floor of the SCEC.

### Speaker preparation room opening hours

Saturday 5 October	07:00 - 18:00
Sunday 6 October	08:00 - 18:00
Monday 7 October	07:30 - 18:30
Tuesday 8 October	07:30 - 17:30
Wednesday 9 October	07:30 - 16:30

The speaker preparation room is located in Bayside 108, on the first floor of the Congress venue. Speakers MUST check in their presentation at the speakers' preparation room at least four hours prior to the commencement of the session in which they are due to present and preferably the day before their presentation. Please note there will be no laptop plug in facilities in the lecture halls. Please refer to pages 18-19 for details.

### myASUM eLearning Portal Launch & ASUM Annual General Meeting

Monday 7 October 2013, 10:30  
Bayside 102  
Sydney Convention & Exhibition Centre

### ASUM meetings

For details of scheduled ASUM committee meetings, please refer to page 113.

### Scientific program hours

Please refer to the program for the exact location and timings of each session. Sessions will take place during the following times:

#### Pre-congress courses only

Saturday 5 October 08:30 - 17:30

#### Main Congress

Sunday 6 October 09:00 - 17:45

(followed by a Welcome to Country, exclusive performance by the Mirramu Dance Company and welcome reception, 17:45-20:30)

Monday 7 October 08:00 - 17:55

Tuesday 8 October 08:00 - 17:35

Wednesday 9 October 08:00 - 17:15

(followed by leaving drinks and welcome to Barcelona 2014! 17:15 - 18:15)

Short oral presentations will be presented in chaired discussion sessions:

Monday & Tuesday 09:25 - 10:05

Monday, Tuesday & Wednesday 11:55 - 12:35

All presentations and posters will be available for viewing at any time on ISUOG OnDemand.

This resource can be accessed on terminals in the ISUOG lounge, located in the Bayside Grand Hall of the SCEC as well after the event through your own ISUOG member login.

### Daylight saving

**Daylight saving will begin in New South Wales on Sunday 6 October 2013 when clocks will go forward one hour at 02:00.** Remember to move your clocks, watches, mobiles and laptops forward so as not to miss any Congress sessions!

### ISUOG Annual General Meeting (AGM)

All fully paid delegates are ISUOG members for 2014 and are invited to attend the AGM.

Sunday 6 October 2013, 12:10  
Bayside Auditorium B  
Sydney Convention & Exhibition Centre

### ISUOG meetings

For details of scheduled ISUOG committee meetings, please refer to page 112.

## List of invited faculty

J. Abbott (Australia)	A. Dobrotwir (Australia)	K. Leung (China)	M. Rowlinson (Australia)
A. Abuhamad (USA)	J. Eden (Australia)	T.Y. Leung (Hong Kong)	K. Russo (Australia)
Z. Alfrevic (UK)	S. Eik-Nes (Norway)	J. Ludlow (Australia)	L. Salomon (France)
F. Audibert (Canada)	V. Eisenberg (Israel)	G. Malingier (Israel)	K. Salvesen (Norway)
R. Baber (Australia)	D. Ellwood (Australia)	K. Maršál (Sweden)	F. Scott (Australia)
M. Bebbington (USA)	E. Epstein (Sweden)	R. McEwing (New Zealand)	W. Sepulveda (Chile)
B. Benacerraf (USA)	A. Gagnon (Canada)	G. McLean (Australia)	K. Shek (Australia)
B. Benoit (France)	H. Gardiner (USA)	A. McLennan (Australia)	S. Sinnott (Australia)
R. Benzie (Australia)	S. Goldstein (USA)	G. McNally (Australia)	S. Siva (Australia)
C. Bilardo (Netherlands)	A. Goudie (Australia)	L. McPherson (Australia)	M. Skilton (Australia)
T. Bourne (UK)	E. Gratacós (Spain)	S. Meagher (Australia)	A. Smith (UK)
M. Bowman (Australia)	W. Greville (Australia)	A. Millischer (France)	R. Smith (Australia)
C. Brezinka (Austria)	C. Griffin (Australia)	R. Mogra (Australia)	J. Smoleniec (Australia)
S. Campbell (UK)	L. Grimshaw (Australia)	A. Ngu (Australia)	K. Stone (Australia)
N. Caplin (Australia)	S. Guerriero (Italy)	D. Nisbet (Australia)	A. Tabor (Denmark)
M. Caramins (Australia)	R. Guzman Rojas (Australia)	D. Paladini (Italy)	H. Takeuchi (Japan)
J. Carter (Australia)	L. Hackett (Briggs) (Australia)	R. Palma Dias (Australia)	A. Testa (Italy)
J. Carvalho (UK)	L. Hardiman (Australia)	A. Papageorghiou (UK)	B. Thilaganathan (UK)
I. Casikar (Australia)	K. Hecher (Germany)	G. Parry (New Zealand)	M. Tucker (Australia)
I. Catchpole (Australia)	M. Herrera (Colombia)	R. Petersen (Australia)	J. Van Lith (Netherlands)
R. Chaoui (Germany)	L. Hicks (Australia)	O. Petersen (Denmark)	J. Vaughan (Australia)
A. Cheung (Australia)	R. Hogg (Australia)	S. Piessens (Australia)	Y. Ville (France)
D. Chou (Australia)	L. Hui (Australia)	L. Platt (USA)	S. Walker (Australia)
R. Choy (Hong Kong)	J. Hyett (Australia)	D. Prayer (Austria)	D. Walkley (Australia)
G. Clarke (Australia)	J. Johnson (Canada)	D. Pugash (Canada)	D. Warner (Australia)
D. Coghlan (Australia)	L. Jokubkiene (Sweden)	S. Quenby (UK)	D. Webster (New Zealand)
G. Condous (Australia)	K. Kalache (Germany)	N. Raine-Fenning (UK)	A. Welsh (Australia)
J. Copel (USA)	A. Khurana (India)	P. Ramsay (Australia)	S. Westerway (Australia)
W. Cormick (Australia)	A. Korda (Australia)	G. Reid (Australia)	S. Yagel (Israel)
F. Costa (Australia)	V. Lanzarone (Australia)	S. Reid (Australia)	M. Yamamoto (Chile)
J. Deprest (Belgium)	T.K. Lau (Hong Kong)	A. Robertson (Australia)	G. Yeo (Singapore)
J. Dickinson (Australia)	W. Lee (USA)	A. Robinson (Canada)	M. Zikan (Czech Republic)
H.P. Dietz (Australia)	C. Lees (UK)	H. Robinson (Australia)	

## CPD accreditation

### Up to 32 CPD credits

ACEM (Australasian College for Emergency Medicine) has accredited the Congress with 0.5 points per hour of educational activity. A total of 13 CPD points can be claimed from ACEM for attendance at this Congress. The accreditation outcome is valid for three (3) years from the January following the date of accreditation or five (5) years in the case of activities accredited with the ACEM ED Ultrasound Committee.

ACRRM (Australian College of Rural & Remote Medicine) will award 28 CPD Core points for the entire Congress.

ASAR (Australian Sonographer Accreditation Registry) has awarded 1 CPD point per hour of attendance at the conference. A maximum of 6 points per day can be claimed by delegates who attend the Congress.

ASUM (Australasian Society for Ultrasound in Medicine) has awarded 1 CPD point per hour of attendance at the conference. A Maximum of 6 points per day can be claimed.

RANZCOG (The Royal Australian and New Zealand College of Obstetricians and Gynaecologists) has classified the Congress as a RANZCOG approved O&G Meeting and eligible Fellows of this College will earn CPD points for attendance as follows:

- Full delegate attendance - 32 points
- Day delegate attendance - 8 points (per day)

In order for Fellows/Subspecialists to claim points for attending this Congress, they will need to keep evidence of their attendance.

## Speaker declarations

The following declarations of interest have been received:

<i>R. Axell</i>	The Phantom was funded by ISUOG and built by the national Physics Laboratory, UK (OP20.01, OP20.02, OP20.03, OP20.04)
<i>R. Choi</i>	Attendance supported by Perkin Elmer
<i>J. Deprest</i>	Research supported via the university transfer office and with a contract stipulating independency of the researchers, by several companies producing meshes, including Bard, Ethicon, FEG textile techniek
<i>H.P. Dietz</i>	Receives an unrestricted educational grant from GE Medical
<i>S. Goldstein</i>	Consultant with Cook ObGyn and Philips Ultrasound
<i>R. Guzman Rojas</i>	Receives an unrestricted educational grant from GE Medical (OP18.02)
<i>J. Johnson</i>	Research supported by Perkin Elmer
<i>K. Kalache</i>	Attendance supported by Philips
<i>A. Khurana</i>	Consultant with GE Healthcare
<i>G. Malingier</i>	Co-author M. Zelichovich works part time for Eldan Israel, the Israeli representation of General Electric products (OC01.05)
<i>G. McNally</i>	Receives support from Nanosonics for their disinfection device at their clinic and to cover their registration for this meeting (OC20.05)
<i>M. Rielly</i>	Is an employee of Philips Healthcare (OC23.01, OC23.03)
<i>C. Shek</i>	Receives an unrestricted educational grant from GE Medical
<i>D. Webster</i>	Attendance supported by Perkin Elmer

The following presentations will include discussion of commercial products/services:

OC01.05, OC07.06, OC10.03, OC15.01, OC15.04, OC20.05, OC21.01, OC23.01, OC23.03, OP01.05, OP06.05, OP08.10, OP13.02, OP18.02, OP18.04, OP22.03, P03.06, P04.17, P05.15 P08.01, P08.02, P09.09, P10.03, P11.15, P12.02, P14.05, P14.15

The following presentations will include discussion of investigative or off label uses of products:

OP01.05, OP05.06, OP06.05, OP08.10, OP11.06, OP13.02, OP19.05, P08.01, P09.02, P09.03, P09.09, P10.03, P12.02

The following presentations will include discussion of clinical studies:

OC03.04, OC03.05, OC04.04, OC04.05, OC05.05, OC06.04, OC09.05, OC09.06, OC11.01, OC12.01, OC13.03, OC13.04, OC14.07, OC14.08, OC17.02, OC18.01, OC18.04, OC19.01, OC19.04, OC19.05, OC19.06, OC20.03, OC22.02, OC23.01, OC23.03, OC23.04, OP01.05, OP02.02, OP02.04, OP02.06, OP04.01, OP04.04, OP05.01, OP05.06, OP08.01, OP08.06, OP08.07, OP08.08, OP08.10, OP08.11, OP11.03, OP11.06, OP11.07, OP12.01, OP12.04, OP12.10, OP13.02, OP13.03, OP13.04, OP13.06, OP14.01, OP14.05, OP14.07, OP15.08, OP16.03, OP18.03, OP18.05, OP18.09, OP19.02, OP19.03, OP19.05, OP21.04, OP22.03, P02.13, P04.01, P04.04, P04.17, P05.06, P05.07, P05.09, P05.11, P06.04, P08.01, P08.02, P08.03, P08.10, P08.15, P08.17, P09.03, P10.03, P10.06, P11.05, P11.07, P11.11, P12.02, P12.09, P13.01, P14.04, P14.07, P14.08, P14.12, P14.17, P14.24, P18.01, P20.02

## Acknowledgements

The following companies are acknowledged for their provision of faculty support grants for the World Congress:



ISUOG also gratefully acknowledges the collaboration of the World Federation of Ultrasound in Medicine and Biology (WFUMB) through a faculty grant to support ISUOG's Ian Donald Gold Medal presentation, and Business Events Sydney for their generous financial support of our meeting facilities.



## Opening sessions & keynote lectures

Our keynote lectures will commence at 9am on Sunday 6 October 2013.

- 09:00 Welcome from the ISUOG President Y. Ville (France)
- 09:05 The clinical implementation of non-invasive prenatal testing T.K. Lau (Hong Kong)
- 09:35 Decidualisation: the key to healthy pregnancy S. Quenby (UK)
- 10:00 Fetal origins of disparities in aboriginal health R. Smith (Australia)
- 10:50 Early pregnancy defines late pregnancy events
- 12:10 Ian Donald Awards and ISUOG AGM



## Social program

### Opening ceremony & welcome reception

Sunday 6 October, Sydney Convention & Exhibition Centre

Complimentary to all registered delegates, accompanying persons and exhibitors, who are invited to attend the special program starting at 17:45 in Bayside Auditorium B, followed by drinks and canapés in the Bayside Grand Hall, on the ground floor of the Sydney Convention & Exhibition Centre.

**Please note you will not be allowed entry without your Congress badge.**

- 17:45 Welcome from the Congress Chairs
- 17:55 Welcome to Country
- 18:10 Exclusive performance by the Mirramu Dance Company
- 18:30 Welcome reception Bayside Grand Hall
- 20:30 Close



Images by Barbie Robinson

### Closing session & awards ceremony

Join us on **Wednesday 9 October** at 15:50 for the final plenary and closing session in Bayside Auditorium A, followed by Spanish sangria and snacks in the Bayside Foyer on Level 1.

### ISUOG Visitor's Guide to Sydney

Be sure to make the most of the ISUOG Visitor's Guide to Sydney prepared by our Local Organising Committee which can be found at registration.

The guide will give you a local view on where to go and what to see in your spare time, including our Local Organising Committee's favourite restaurants, wine bars and pubs.

### Travel & sightseeing

A number of optional tours have been developed for Congress delegates and their accompanying persons, to showcase the sites of Sydney and surrounding regions.

If you wish to climb the Sydney Harbour Bridge, experience the wonders of Sydney Harbour by boat or escape the city and travel west to the Blue Mountains, please contact Tour East: [isuog@toureast.net](mailto:isuog@toureast.net)

### Accompanying person's program

Cost: \$100 per person  
Available at the registration desk, the accompanying persons' program includes:

- Admission to the Congress opening ceremony
- Admission to the Congress exhibition area and catering breaks
- Lonely Planet Sydney pocket guide

## Congress party

### Tuesday 8 October

- Time: 19:00 - midnight
- Venue: Waterfront & Wolfies, 27 Circular Quay West, The Rocks, Sydney, NSW 2000
- Cost: \$125 per person (including dinner, all drinks and entertainment!)
- Dress: Cocktail

**You must buy a ticket to attend this event. Places are strictly limited and are offered on a first come, first served basis. Please note you will not be allowed entry without your party ticket (which you can collect or purchase at registration), so please remember to bring it with you to attend.**

Our venue for the 2013 Congress Party is Waterfront & Wolfies, set in the Rocks precinct with stunning views of the Sydney Harbour Bridge and the internationally renowned Opera House. The party will be a cocktail style with occasional seating. All delegates, accompanying persons and exhibitors are welcome to register for a relaxing evening including a standing buffet and dancing.



## General information

### Cash machines

Banks are normally open from 09:00 to 16:00 on weekdays. There is a cash point located within SCEC opposite Hall 5 (exhibition halls of the venue). There are also cash points available in the Harbourside Shopping Centre.

### Catering

Tea, coffee and lunches will be served in the Bayside Grand Hall from Sunday to Wednesday. Please join us for welcome drinks after the opening ceremony on Sunday afternoon and for a glass of sangria after the closing session on Wednesday to celebrate the host city of ISUOG's World Congress in 2014, Barcelona.

### Certificates of attendance

To receive your certificate of attendance please hand your Congress evaluation form to the staff at the registration desk before 18:00 on Wednesday 9 October. Your certificate will be sent to you after the Congress to the email address we have for you on file. If you have any questions please ask at the registration desk.

### Congress contact details

#### Congrex UK (registration & booking enquiries)

26-28 Hammersmith Grove, London, W6 7HA, UK  
 T: + 44 (0)20 8748 8868 F: + 44 (0)20 8237 4093  
 E: [ISUOG2013@congrex.com](mailto:ISUOG2013@congrex.com)

#### ASUM Secretariat (ASUM program enquiries)

ASUM, Level 2, 511 Pacific Highway Crows Nest, NSW 1585, Australia  
 T: +61 (0)2 9438 2078 F: +61 (0)2 9438 3686  
 E: [asum@asum.com.au](mailto:asum@asum.com.au)

#### ISUOG Secretariat (all other enquiries)

ISUOG, 122 Freston Road, London W10 6TR, UK  
 T: + 44 (0)20 7471 9955 F: + 44 (0)20 7471 9959  
 E: [congress@isuog.org](mailto:congress@isuog.org)

### Disclaimer

Best endeavours will be made to present the program as printed. However ISUOG and its agents reserve the right to alter or cancel without prior notice, any of the arrangements, timetables, plans or other items relating directly or indirectly to the Congress for any reason beyond its reasonable control. ISUOG and its agents are not liable for any loss or inconvenience caused as a result of such alteration.

### Official language

The official language of the Congress is English. No translation facilities are available.

### Duplications/recordings

Photography, audio taping, video recording, or any other form of duplication is strictly prohibited in the session halls and poster areas, except with the express consent, in advance, of ISUOG and the speakers involved. Please note that all sessions are available to delegates and ISUOG members after the Congress, through ISUOG OnDemand.

### First aid

Should you require assistance during Congress hours, please contact the registration desk.

### Future meetings

Literature regarding future meetings of interest to participants is displayed in the exhibition area.

### Lost property

Please hand any lost property to the registration desk, where it will be made available for collection.

### Smoking policy

Smoking is not permitted in the building.

### Name badges

Please wear your name badge at all times; you will need this to gain admission to the sessions or exhibition area. Please note, our staff members are instructed not to permit entry without your badge, so please be understanding if you are asked to return to the registration desk. Name badge holders have been colour coded as follows:

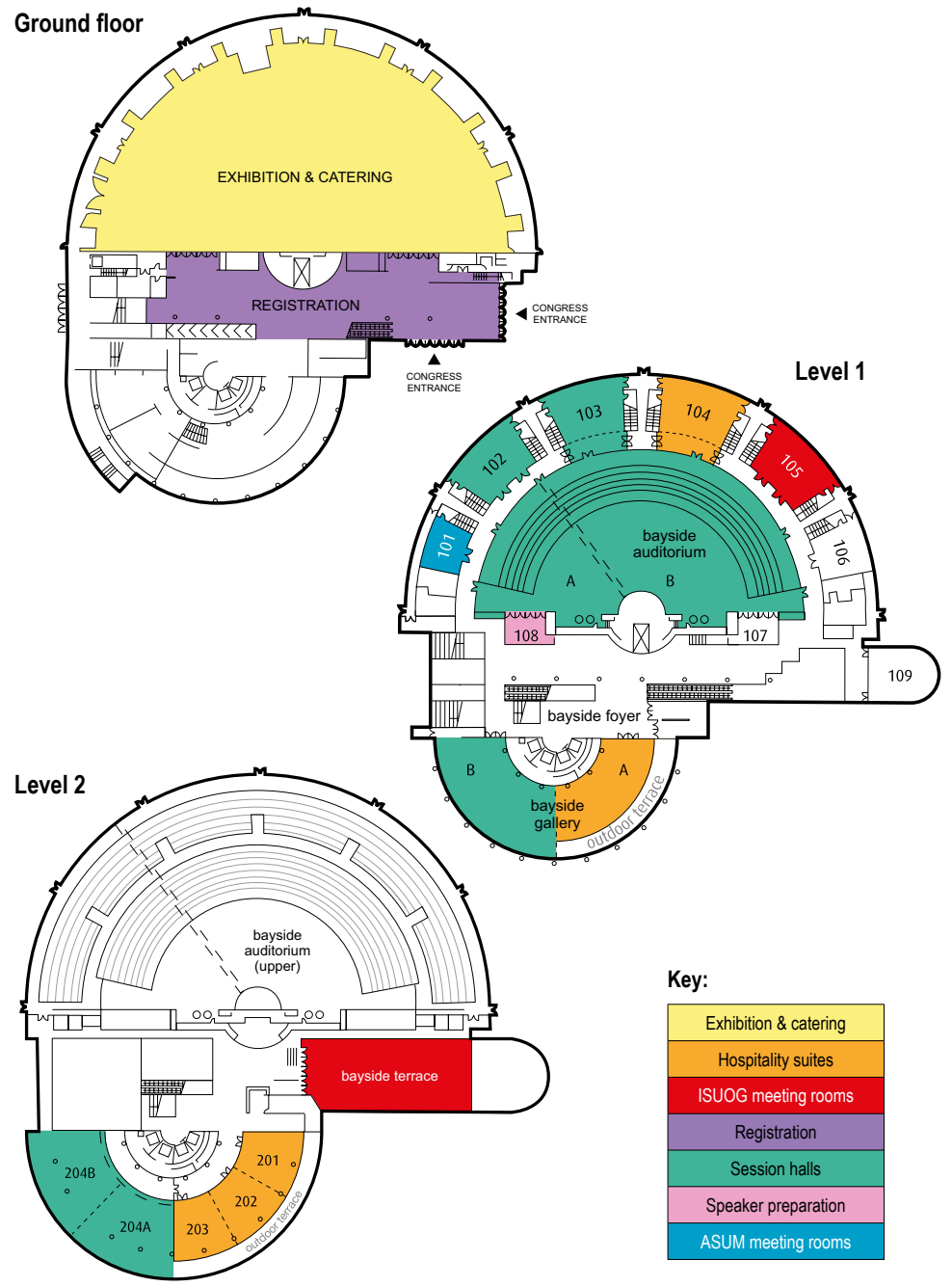
#### Large badge holder:

- Full delegates
- ISUOG Board
- ASUM Council
- Invited faculty
- Exhibitors
- Staff (with wording STAFF on badge)

#### Small badge holder:

- Day delegate
- Accompanying persons

## Venue floor plans



# Program at a glance

Daylight saving will begin in New South Wales on Sunday 6 October 2013 when clocks will go forward one hour at 02:00. Remember to move your clocks forward so as not to miss any Congress sessions.

## Sunday 6 October 2013

	Bayside Auditorium B	Bayside Auditorium A	Bayside 204	Bayside Gallery B	Bayside 102	Bayside 103
09:00-10:20	ISUOG keynote lectures					
10:20-10:50	C O F F E E & E - P O S T E R V I E W I N G		VISUOG launch			
10:50-13:15	Opening sessions & ISUOG AGM				LIVE SCAN 1A - Ovarian vein imaging	1B - Neonatal cranial ultrasound and spine
13:15-14:30		Philips satellite symposium (13:25-14:25)	L U N C H & E - P O S T E R V I E W I N G (13:15-14:30)			
14:30-15:50		LIVE SCAN OC01 - Fetal neurosonography I	LIVE SCAN OC02 - Pelvic pain and endometriosis	OC03 - Concepts in fetal growth restriction	2A - Infrarenal abdominal aortic aneurysm	LIVE SCAN 2B - Pediatric hip and Neonatal spine
15:50-16:20		C O F F E E & E - P O S T E R V I E W I N G				
16:20-17:40		Workshop IUGR: detection and management	Workshop Early pregnancy	Workshop Monochorionic twins	LIVE SCAN Workshop 3A - DVT and superficial thrombophlebitis	Workshop 3B - Abdomen
17:45-18:25	Opening ceremony					
18:30-20:30	Welcome reception					

### Program key:

Obstetrics sessions	Vascular sessions	MSK sessions	Sponsored satellite symposium	Social
Gynaecology sessions	Pediatrics sessions	Plenary sessions	'Meet the professor' sessions	

## Monday 7 October 2013

	Bayside Auditorium A	Bayside 204	Bayside Gallery B	Bayside 102	Bayside 103
08:00-09:20	LIVE SCAN OC04 - Aneuploidy and second trimester fetal anomalies I	LIVE SCAN OC05 - Towards functional assessment of fetal growth	OC06 - Early pregnancy	LIVE SCAN 4A - Renal artery and parenchymal Doppler	LIVE SCAN 4B - Pre and post operative shoulder
09:25-10:05	OP01	OP02	OP03	Publishing your research: a practical approach	
10:00-10:30		C O F F E E & E - P O S T E R V I E W I N G			
	LIVE SCAN	LIVE SCAN	myASUM eLearning Portal Launch and ASUM AGM		
10:30-11:50	OC07 - Cardiac function and geometry in normal and abnormal fetuses	OC08 - Fetal neurosonography II	OC09 - Reproductive medicine and IVF	LIVE SCAN 5A - Varicose veins in pregnancy	LIVE SCAN 5B - Extremities
11:55-12:35	OP04	OP05	OP06	Research II	
12:30-14:00	L U N C H & E - P O S T E R V I E W I N G (12:30-14:00)				
	GE Healthcare satellite symposium (12:45-13:45)				
14:00-15:20	Workshop Routine cardiac exam: moving beyond 4C view	OC10 - Abnormal uterine bleeding	Workshop Reproductive medicine	LIVE SCAN 7A - Arterial diseases of the lower limb	LIVE SCAN Workshop 7B - Hip and groin pain; lateral ankle
15:20-15:50		C O F F E E & E - P O S T E R V I E W I N G			
15:50-17:10	Workshop Cardiovascular borderline findings	Workshop Prediction of pregnancy complications	Workshop How to characterise ovarian pathology	LIVE SCAN 8A - Carotid arterial disease	LIVE SCAN Workshop 8B - MSK intervention in pregnancy
17:15-17:55	'Meet the professor' sessions				

## Tuesday 8 October 2013

Bayside Auditorium A		Bayside 204		Bayside Gallery B		Bayside 102		Bayside 103	
08:00-09:20	OC11 - Plenary including top abstracts								
09:25-10:05	OP07	OP08	OP09	OP10	OP11	C O F F E E & E - P O S T E R V I E W I N G			
10:00-10:30	LIVE SCAN	LIVE SCAN							
10:30-11:50	OC12 - Cardiac function in the assessment and prediction of disease	OC13 - Maternal fetal Doppler	OC14 - Characterising ovarian pathology						
11:55-12:35	OP12	OP13	OP14	OP15	OP16	L U N C H & E - P O S T E R V I E W I N G ( 1 2 : 1 5 - 1 3 : 4 5 )			
12:15-13:45	Toshiba satellite symposium (12:40-13:40)								
13:45-15:05	LIVE SCAN	LIVE SCAN	OC16 - Congenital infections	OC17 - Ultrasound in oncology					
15:05-15:30						C O F F E E & E - P O S T E R V I E W I N G			
15:30-16:50	Workshop Intrapartum ultrasound	LIVE SCAN	Workshop Oncology	Workshop 3D	Workshop OC23 - Ultrasound in rural settings: ISUOG Outreach	Workshop Menopause and screening			
16:55-17:35						'Meet the professor' sessions			
19:00-00:00						C O N G R E S S P A R T Y			

## Wednesday 9 October 2013

Bayside Auditorium A		Bayside 204		Bayside Gallery B		Bayside 102		Bayside 103	
08:00-08:40									
08:45-10:05	LIVE SCAN	OC19 - Urogynecology	OC20 - Making obstetrics safer through ultrasound			'Meet the professor' sessions			
10:00-10:30	LIVE SCAN	LIVE SCAN				C O F F E E & E - P O S T E R V I E W I N G			
10:30-11:50	OC21 - First trimester screening	Workshop Urogynecology I	OC22 - Multiple pregnancy						
11:55-12:35	OP17	OP18	OP19	OP20	OP21	L U N C H & E - P O S T E R V I E W I N G ( 1 2 : 3 0 - 1 4 : 0 0 )			
12:30-14:00	Samsung Medison satellite symposium (12:45-13:45)								
14:00-15:20	Workshop Routine ultrasound: how many, when and for what	LIVE SCAN	Workshop Pre-term labour	Workshop Screening with diagnosis of chromosomal abnormalities: present and future	Workshop Fetal therapy				
15:20-15:50	Panel discussion: ultrasound and MRI combined approach					C O F F E E & E - P O S T E R V I E W I N G			
15:50-17:30									
17:30-18:15						C O N G R E S S L E A V I N G D R I N K S			

## Program key:

Obstetrics sessions	Short oral presentations	Sponsored satellite symposium	Plenary sessions
Gynecology sessions	Electronic poster viewing	'Meet the professor' sessions	Social



## Program orientation

The **program at a glance** gives you an outline to each day's events including session titles, times and refreshment breaks. The **full program** pages give you the detailed chronological listing of all events. Please note that most sessions run in parallel so you will need to read through sessions taking place at the same time, to decide which best suits your needs.

The full program is available on our itinerary planner found online at [isuog.org/worldcongress/2013](http://isuog.org/worldcongress/2013).

### Session types explained...

#### Plenary sessions

Plenary sessions include invited talks and special lectures on Sunday 6 October, top abstracts on Tuesday 8 October and a panel discussion on ultrasound and MRI combined approach on Wednesday 9 October.

#### Scientific sessions

ISUOG scientific sessions run in parallel rooms from Sunday to Wednesday with ASUM sessions on Sunday and Monday only. These sessions include invited talks, oral communication presentations and short oral presentations. Electronic poster presentations make up part of the scientific program, but are not presented orally within sessions.

#### Invited talks

- ISUOG and ASUM faculty members have been invited to present world class lectures as overviews to sessions or in more detail within workshops. See below a list of session types coded by colour as per the program.

Obstetrics

Vascular

Gynecology

Pediatrics

MSK

#### 'Meet the professor' sessions

- These are educational lectures from leading experts in the field and form part of the main delegate program. The aim is to provide state of the art updates in particular chosen subjects to a smaller audience in an informal session.

#### OC (oral communication)

- Presented within 3 main parallel sessions, OC abstract authors are allocated 5 minutes for their presentation, plus 3 minutes for discussion.

#### OP (short oral presentation)

- OPs are poster submissions considered suitable for short oral presentation within between 3 to 5 parallel sessions depending on the congress day. OP abstract authors are allocated 2 minutes to summarise their poster, followed by 2 minutes for discussion.

#### P (electronic poster)

- Abstracts accepted as view only posters are available for viewing throughout the congress on the OnDemand viewing terminals located at the ISUOG lounge in the Bayside Grand Hall as single PowerPoint slides. Authors may be contacted for discussion through the integrated email facility.

*All ISUOG OC & OP presentations will be judged within their subject categories by the session chairpersons and the ISUOG Scientific Committee.*

*All ASUM presentations (where applicable) and OC, OP & P presentations are supported by printed abstracts, which are listed by number and can be located in the abstract book.*

#### Workshops

Educational workshops consist of between 3 and 5 didactic lectures on key special interest areas and in some cases live scan demonstrations where appropriate. Anyone can attend these popular sessions, but on a first come, first served basis.

#### Live scan

Some scientific and workshop sessions include live scan demonstrations. Some are quite general and the aim is to give background to the session. In others, faculty will have been asked to demonstrate a particular new technique or technology. ISUOG and ASUM have determined the content for their respective sessions, while our sponsors kindly support them by providing technical equipment.

## ISUOG OnDemand



### View ISUOG Congress presentations online anytime!

Our online multimedia platform allows members to view Congress presentations anytime

- All presentations (OC, OP, P, invited talks and workshops) will be recorded and made available.
- Access to this resource is free to all delegates during the Congress, on the **viewing terminals** located in the **ISUOG lounge** in the exhibition hall and to 2014 ISUOG members for the following year.
- Revisit your favourite lectures or view missed sessions at your leisure.

This is available at the Congress with thanks to an unrestricted educational grant from Philips.

## Download the Congress App



### Keep up to date with the program on your smartphone!

Download the **EventBoard App** and search for the ISUOG congress event. Remember to allow promotional messages to receive official updates.



- Follow the program
- Receive official updates
- Access social media platforms

## Join the conversation #ISUOG2013

### Get interactive at the Congress!



Like us on Facebook [/isuog.org](http://isuog.org) & [/asum.com.au](http://asum.com.au)



Follow our Twitter feed and tweet us [@isuog](https://twitter.com/isuog)



Join our discussion groups on [linkedin.com](http://linkedin.com)



Share your Congress photos on [pinterest.com/isuog](http://pinterest.com/isuog)

## Chairperson, speaker & presenter guidelines

### Essential information

If you are chairing, speaking in a session, presenting an oral communication (OC), delivering a short oral presentation (OP), or have an electronic poster (P), you will need to refer to the guidelines below. Please note that there may be several sections which are relevant to your activities. If you have any questions, please address them to the staff in the speakers' preparation room (Bayside 108, first floor).

Our presentation system is networked to all session halls and all talks must be uploaded in advance. OC, OP and P presentations should have been uploaded online prior to the Congress. All other presentations must be uploaded in the speakers' preparation room. Mac users and those with complex video can be accommodated. All session halls are equipped with the necessary technical requirements and back-up systems. Please note that personal laptops may not be used in the session halls, so please visit the speakers preparation room if you have any queries. Any speaker is welcome to preview his or her talk on the system before their session.

All OP's uploaded will be recorded and made available for viewing (but not download) to delegates and ISUOG members on the Congress web portal. All accepted abstract authors have been asked in advance to give their consent to the recording of their presentations. Only authors who have not completed this section will be asked to complete a release form for this onsite, and we thank you for supporting this service to our members. Please note that publication embargoes can be applied if necessary. The portal will be available in the ISUOG lounge in the Bayside Grand Hall on the ISUOG OnDemand terminals. Please address any queries to the technical staff in the speakers' preparation room.

### General notes for all presenters (invited, OC and OP)

Please meet at the front of the session hall 15 minutes before the start of the session to introduce yourselves, and allow the chairperson to confirm the format of the session. Please note some OP sessions will only be able to meet 5 minutes before hand as the room will be in use. Please check the daily program to see if this affects you.

- All presentations must be in English. Please ensure that you speak slowly and clearly throughout.
- Discussion time has been allocated to each session so please look at the program closely for details.
- The program schedule is extremely tight, so all speakers must adhere to the time allocated to them. Should a speaker overrun, chairpersons are instructed to interrupt and request that the speaker stop. Please be considerate of other speakers if you are asked to conclude your talk and please do so promptly.
- All delegates have been requested not to record sessions, but ISUOG can take no responsibility for third party recordings. We request that speakers who specifically object to audio/video recording of their presentations state this before their lecture.
- The scientific committee will announce the best presentations within subject categories and the Young Investigator prize winner at the closing session.

### Invited and OC presentations

All speakers must report to the speakers' preparation room at least four (4) hours prior to the commencement of the session in which they are due to present and, preferably the day before. Speakers can then check their presentation with the audio-visual staff prior to the presentation being sent to the lecture hall.

- Presentations from personal laptops are not permitted in the session halls or breakout sessions; all presentations must be checked in at the speaker preparation room.
- If you are presenting an OC you should not present the background to your particular study or data set. This can be repetitive if several related studies are to be presented, and will be covered separately within the session if considered necessary. Time is short, so please keep your talk concise and focus only on your new data.

### Chairpersons

There will be a chairpersons' briefing on Sunday 6 October at 08:00 in Bayside Gallery B to confirm session formats and demonstrate the presentation management tool. The briefing will last no longer than 30 minutes. Your role is crucial to our Congress success and we are grateful for your attendance.

- It is your responsibility to ensure strict adherence to presentation times as listed in the program and to direct and moderate discussion. There will be a countdown system in place in the main session halls to assist you with this.
- Should a speaker not arrive for his/her presentation, please fill the additional time with discussion or, provided all other speakers are present, please move forward with the program. Please try not to deviate dramatically from the advertised program to allow delegates to follow the session.
- At the start of the session, please ask the audience to silence all mobile devices. Please remind the audience that the recording of sessions is not permitted and to refrain from any flash photography during presentations. ISUOG will record all lectures and make them available online.
- There will be a host/hostess assigned to the session hall who will assist with any requirements you may have for the running of the session. A technician from the audio-visual team will also be available.
- There will be microphones on stands within each hall for discussions. Delegates will need to wait behind the microphones to ask their questions. Please direct the audience at the start of the session as to how questions will be managed to ensure the best use of time.
- You are asked to support the scientific committee by scoring and selecting the best presentations in your session.

### Chairpersons's briefing - Sunday 6 October at 08:00 - Bayside Gallery B



### Short oral presentations (OP) and electronic posters (P)

Authors should have emailed their single PowerPoint poster slides in advance of the Congress. The organisers cannot guarantee that presentations can be included if they have not been received in advance.

OP and P slides will be available for viewing as e-posters from Sunday 6 to Wednesday 9 October 2013 in the ISUOG lounge in the Bayside Grand Hall on the ISUOG OnDemand terminals. Authors can be contacted through this system, so please try and check your emails regularly in case you have been contacted by a participant who has questions.

#### OP authors also present their work in OP sessions:

- Presenters may report to the speaker preparation room the day before their presentation to check their presentation or can check directly on the ISUOG OnDemand terminals in the ISUOG lounge in the Bayside Grand Hall.
- Presenters should arrive at the relevant session hall at least 10 minutes prior to the listed time.

## Short oral presentations at a glance

Day & time	Short oral presentation session		Room
<b>Monday</b> (09:25 - 10:05)	OP01	Aneuploidy and second trimester fetal anomalies	<i>Bayside Auditorium A</i>
	OP02	Fetal growth restriction	<i>Bayside 204</i>
	OP03	Early pregnancy	<i>Bayside Gallery B</i>
	6B	ASUM research I	<i>Bayside 103</i>
<b>Monday</b> (11:55 - 12:35)	OP04	Cardiac function and new technologies	<i>Bayside Auditorium A</i>
	OP05	Fetal neurosonography	<i>Bayside 204</i>
	OP06	Reproductive medicine	<i>Bayside Gallery B</i>
	6A	ASUM research II	<i>Bayside 103</i>
(15:08 - 15:20)	OP22	Abnormal uterine bleeding	<i>Bayside 204</i>
<b>Tuesday</b> (09:25 - 10:05)	OP07	Second trimester anomalies and aneuploidies	<i>Bayside Auditorium A</i>
	OP08	Fetal growth and Doppler	<i>Bayside 204</i>
	OP09	Characterising ovarian pathology	<i>Bayside Gallery B</i>
	OP10	Fetal interventions	<i>Bayside 102</i>
	OP11	Ultrasound assessment of preterm and term labour	<i>Bayside 103</i>
<b>Tuesday</b> (11:55 - 12:35)	OP12	Congenital heart disease	<i>Bayside Auditorium A</i>
	OP13	Assessment in late pregnancy and labour	<i>Bayside 204</i>
	OP14	Ultrasound in oncology	<i>Bayside Gallery B</i>
	OP15	Imaging technologies	<i>Bayside 102</i>
	OP16	Pelvic pain and endometriosis	<i>Bayside 103</i>
<b>Wednesday</b> (11:55 - 12:35)	OP17	Aneuploidy: first trimester	<i>Bayside Auditorium A</i>
	OP18	Urogynecology	<i>Bayside 204</i>
	OP19	First trimester assessment of growth and Doppler	<i>Bayside Gallery B</i>
	OP20	Technology to improve training and safety	<i>Bayside 102</i>
	OP21	Multiple pregnancy	<i>Bayside 103</i>

## Electronic posters at a glance

Electronic posters (P) are available for viewing throughout the Congress on the ISUOG OnDemand viewing terminals located in the ISUOG lounge in the Bayside Grand Hall. You can also send questions or comments to authors using our integrated e-mail facility. Electronic posters are subject categorised on pages 83-94.

Poster session	
P01	Abnormal uterine bleeding, fibroids and adenomyosis
P02	Assessment in late pregnancy
P03	Cardiac anomalies and heart function
P04	Fetal echocardiography
P05	First trimester: aneuploidy and anomalies
P06	Second trimester anomalies and aneuploidies
P07	Second trimester anomalies and aneuploidies: just images
P08 (08.01-08.03)	Fetal growth and Doppler
P08 (08.04-08.18)	Fetal growth restriction
P09	Fetal interventions
P10	Fetal neurosonography
P11	Imaging technologies
P12	Keeping ultrasound safe-keeping patients safe
P13	Multiple pregnancy
P14	Ultrasound assessment of preterm and term labour
P15	Characterising and managing ovarian masses
P16	Early pregnancy
P17	Pelvic pain
P18	Reproductive medicine
P19	Urogynecology
P20	Ultrasound in gynecological oncology
9A	Vascular III (ASUM)

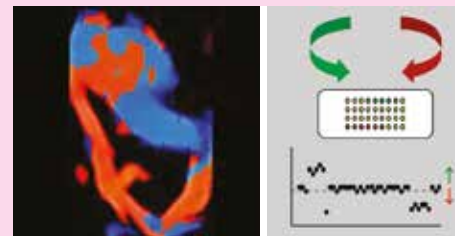
## 'Meet the professor' sessions at a glance

Day & time	Session	Professor	Room
<b>Monday</b> (17:15 - 17:55)	Third trimester neurosonography, what to look for	<i>G. Malinge (Israel)</i>	<i>Bayside Auditorium A</i>
	First trimester screening of pregnancy complications	<i>J. Hyett (Australia)</i>	<i>Bayside 204</i>
	Doppler in all trimesters	<i>C. Bilardo (Netherlands)</i>	<i>Bayside Gallery B</i>
	Normal and abnormal corpus callosum (PEND)	<i>R. Chaoui (Germany)</i>	<i>Bayside 102</i>
	Endometriosis: selection for appropriate laparoscopic surgery	<i>G. Condous (Australia)</i>	<i>Bayside 103</i>
<b>Tuesday</b> (16:55 - 17:35)	The Sherlock Holmes approach to syndromes involving the face	<i>B. Benacerraf (USA)</i>	<i>Bayside 204</i>
	Update in the management of IUGR	<i>E. Gratacós (Spain)</i>	<i>Bayside Gallery B</i>
	Early fetal echocardiography	<i>J. Carvalho (UK)</i>	<i>Bayside 102</i>
	How to characterise uterine anomalies in practice	<i>N. Raine-Fenning (UK)</i>	<i>Bayside 103</i>
<b>Wednesday</b> (08:00 - 08:40)	Imaging of pelvic floor trauma	<i>H. P. Dietz (Australia)</i>	<i>Bayside 204</i>
	Screening and management of specific monochorionic twin complications	<i>Y. Ville (France)</i>	<i>Bayside Gallery B</i>
	Metastatic ovarian tumors (secondary tumors of the ovary)	<i>A. Testa (Italy)</i>	<i>Bayside 102</i>
	Optimising your 3D scan	<i>L. Platt (USA)</i>	<i>Bayside 103</i>

## Pre-congress courses

08:30 - 17:30

### Prenatal screening and diagnosis of aneuploidy



*Bayside Gallery B*

Presented in partnership with:



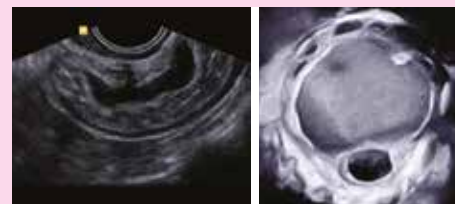
Supported by an unrestricted educational grant from:



Pre-congress course

09:00 - 17:00

### Endometriosis: how can we improve pre-operative prediction of disease? Sonologist and laparoscopist's perspectives



Supported by an unrestricted educational grant from:



**SAMSUNG MEDISON**

Pre-congress course

08:25 - 17:25

### Ultrasound in the O&G office



Hands on session supported by equipment from:




Pre-congress course



# isspd 18th International Conference on Prenatal Diagnosis and Therapy

BRISBANE 2014 20-23 July 2014 | Brisbane, Australia

featuring a joint course/presentation with  **isuog** the International Society of Ultrasound in Obstetrics and Gynecology

in association with



[www.ispdhome.org/2014](http://www.ispdhome.org/2014)



## Program - Saturday 5 October 2013

**08:30 - 17:30 Prenatal screening and diagnosis of aneuploidy** *Bayside Gallery B*

**Chairs:** *J. Van Lith (Netherlands); A. McLennan (Australia)*

Presented in partnership with:



- 08:30 Population based screening for Down syndrome in Denmark: an overview of the process and effectiveness of screening  
*A. Tabor (Denmark)*
- 08:50 Population based screening for Down syndrome in New Zealand: an overview of the process and effectiveness of screening  
*D. Webster (New Zealand)*
- 09:10 Resetting the standards of screening: changing risk cut-offs to improve screening performance  
*F. Costa (Australia)*
- 09:30 Effective intervention for managing NT underperformers  
*A. Robertson (Australia)*
- 09:50 Discussion
- 10:00 Coffee break
- 10:30 Molecular karyotyping: techniques, technologies, applications and limitations  
*R. Choy (Hong Kong)*
- 11:10 Guidelines for use of prenatal aCGH array  
*M. Caramins (Australia)*
- 11:30 aCGH array for 'routine' fetal karyotyping: clinical experience  
*W. Greville (Australia)*
- 11:50 Discussion
- 12:00 - 13:00 Lunch**
- Chairs:** *J. Hyett (Australia); T.Y. Leung (Hong Kong)*
- 13:00 Sequencing for NIPT: techniques, technologies, applications and limitations  
*L. Hui (Australia)*
- 13:20 Non-invasive testing: a summary of test efficacy  
*J. Van Lith (Netherlands)*
- 13:40 Limited karyotyping: what we will miss  
*O. Petersen (Denmark)*
- 14:00 Combined first trimester biochemistry, NIPT or both?  
*J. Johnson (Canada)*
- 14:20 Discussion
- 14:40 Coffee break
- 15:10 First trimester screening for neural tube defects  
*S. Meagher (Australia)*
- 15:30 Screening for adverse pregnancy outcomes at 12 weeks  
*F. Audibert (Canada)*
- 15:50 Diagnosing cardiac defects at 12 weeks: tips and tricks for the sonographer  
*R. Chaoui (Germany)*
- 16:10 Interpretation of 20 week scan following NIPT  
*B. Benacerraf (United States)*
- 16:30 Discussion

Supported by an unrestricted educational grant from:



## Program - Saturday 5 October 2013

09:00 - 17:00 **Endometriosis: how can we improve pre-operative prediction of disease? Sonologist and laparoscopist's perspectives** *Bayside 103*

**Chairs:** *G. Condous (Australia); S. Piessens (Australia)*

- 09:00 Welcome  
*G. Condous (Australia)*
- 09:05 Imaging modalities used for assessing deep infiltrating endometriosis  
*S. Reid (Australia)*
- 09:30 Why is pre-operative mapping of disease location and extent important for the laparoscopic surgeon?  
*J. Abbott (Australia)*
- 10:00 How to do a detailed scan for deep infiltrating endometriosis?  
*S. Piessens (Australia)*
- 10:30 Coffee break
- 11:00 How to manage endometriomas whilst minimising the impact on ovarian reserve  
*G. Reid (Australia)*
- 11:30 Use of 3D ultrasound and MRI to predict posterior compartment deep infiltrating endometriosis (DIE)  
*S. Guerriero (Italy)*
- 11:50 LIVE SCAN [Supported by: Samsung Medison\*]  
*S. Piessens (Australia); V. Lanzarone (Australia)*
- 12:55 The endometrioma: including how to recognise decidualisation, endometrioid and carcinomatous changes on ultrasound  
*A. Testa (Italy)*

### 13:15 - 14:15 Lunch

- 14:15 The significance to the surgeon of POD obliteration at laparoscopy - when do you involve a colo-rectal surgeon?  
*D. Chou (Australia)*
- 14:45 Can we predict pouch of Douglas obliteration in women with suspected endometriosis using a new real-time dynamic transvaginal ultrasound technique: the "sliding sign"  
*S. Reid (Australia)*
- 15:15 Sonovaginography - how gel can help define the rectovaginal septum  
*G. Condous (Australia)*
- 15:30 Coffee break
- 16:00 Case presentations demonstrating case selection for surgery by intermediate or advanced laparoscopic surgeon  
*S. Reid (Australia); G. Condous (Australia)*
- 16:30 Case presentations: deep infiltrating endometriosis and bowel lesions  
*S. Piessens (Australia); V. Lanzarone (Australia)*

Supported by an unrestricted educational grant from:



**SAMSUNG MEDISON**

## Program - Saturday 5 October 2013

08:25 - 17:25 **Ultrasound in the O&G office** *Bayside 102*

**Chairs:** *S. Westerway (Australia); J. Dickinson (Australia)*

- 08:25 Welcome
- 08:30 What functions do I need in an ultrasound machine for my office and how do I make best use of them?  
*S. Westerway (Australia)*
- 09:00 LIVE SCAN: putting theory into practice, machine functionality  
*W. Sepulveda (Chile)*
- 09:30 The early pregnancy review: what do I need to see and what should I see?  
*D. Pugash (Canada)*
- 10:00 Vaginal bleeding in the first 10 weeks of pregnancy - how ultrasound can help  
*J. Vaughan (Australia)*
- 10:30 Coffee break
- 11:00 Measuring the fetus - too big or too small?  
*S. Walker (Australia)*
- 11:30 Is that placenta where it should be? Placental location, vasa praevia, succenturiate lobes and other oddities of the placenta  
*C. Griffin (Australia)*
- 12:00 Into the darkness - amniotic fluid volume - too much and too little  
*G. Yeo (Singapore)*

### 12:30 - 13:30 Lunch

- 13:30 Cervical length - how short is too short and how can I tell?  
*L. Salomon (France)*
- 14:00 The when, why and how of feto-placental Doppler in pregnancy  
*A. Quinton (Australia)*
- 14:30 What if there is more than one - basic ultrasound rules for multiple pregnancies  
*A. Welsh (Australia)*
- 15:00 Coffee break
- 15:30 Hands on demonstration
- 16:30 Potential pitfalls in office scanning and how to avoid them (if possible!)  
*J. Dickinson (Australia)*

Hands on session supported by equipment from:



\*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.

## ISUOG's new visual library launch

ISUOG is proud to launch VISUOG, our brand new visual encyclopedia on ultrasound in obstetrics and gynecology.\*

Update your clinical knowledge on current topics, watch live scan videos, browse images and access regularly updated articles.

Be one of the first to use our new interactive resource and provide your vital feedback. Call in at the ISUOG lounge to test VISUOG for yourself.

Start exploring at [isuog.org](http://isuog.org)



## Program - Sunday 6 October 2013

Daylight saving will begin in New South Wales on Sunday 6 October 2013 when clocks will go forward one hour at 02:00. Remember to move your clocks forward so as not to miss any Congress sessions.

Plenaries	09:00 - 10:20 ISUOG keynote lectures <i>Bayside Auditorium B</i>		
	10:50 - 12:10 Early pregnancy defines late pregnancy events <i>Bayside Auditorium B</i>		
	12:10 - 13:15 Ian Donald Awards and ISUOG AGM <i>Bayside Auditorium B</i>		
VISUOG	10:30 - 10:45 VISUOG launch <i>Bayside Gallery B</i>		
Parallel sessions	10:50 - 13:15 Vascular I: Ovarian vein imaging <i>Bayside 102</i> Pediatrics I: Neonatal cranial ultrasound and spine <i>Bayside 103</i>		
	Sponsor	13:25 - 14:25 Philips Medical Systems satellite symposium <i>Bayside Auditorium A</i>	
Parallel sessions	14:30 - 15:50 Fetal neurosonography I <i>Bayside Auditorium A</i> Pelvic pain and endometriosis <i>Bayside 204</i> Concepts in fetal growth restriction <i>Bayside Gallery B</i> Vascular II: Infrarenal abdominal aortic aneurysm <i>Bayside 102</i> Pediatrics II: Pediatric hip and neonatal spine <i>Bayside 103</i>		
	Workshops	16:20 - 17:40 IUGR: detection and management <i>Bayside Auditorium A</i> Early pregnancy <i>Bayside 204</i> Monochorionic twins <i>Bayside Gallery B</i> Vascular III: DVT and superficial thrombophlebitis <i>Bayside 102</i> Pediatrics III: Abdomen <i>Bayside 103</i>	
		Social	17:45 - 18:25 Opening ceremony <i>Bayside Auditorium B</i>
			18:30 - 20:30 Welcome reception <i>Bayside Grand Hall</i>

## Attend ISUOG's AGM, Sunday 6 October at 12:10

All ISUOG members are invited to attend the Annual General Meeting (AGM) on Sunday 6 October, 2013 at 12.10 in the Bayside Auditorium B.

Open to all fully paid Congress delegates, who automatically receive one year's ISUOG membership. Join us to find out more about ISUOG activities and vote on ISUOG business.

For the full agenda and year end accounts for 2012, please visit [isuog.org/membership/AGM](http://isuog.org/membership/AGM)

**AGM**  
Sunday  
12:10

## Keynote speaker biographies



### Dr Siobhan Quenby

Dr Siobhan Quenby is the Director of the Biomedical Research Unit in Reproductive Health, Professor of Obstetrics at the University of Warwick and Honorary Consultant at University Hospital Coventry and Warwickshire NHS trust. Siobhan has twenty years of experience in translational research into recurrent miscarriage and dysfunctional labour and has published over 75 original articles on this subject. She serves on several international and national committees; European Society for Human Reproduction and Endocrinology Early Pregnancy Special Interest Group, MHRA Expert Advisory Panel for women's health, Scientific Advisory Committee of the Royal College of Obstetricians and Gynaecologists (RCOG), RCOG Preterm Labour Clinical Study Group, RCOG Early Pregnancy Clinical Study Group. Her work has received considerable media interest, including from BBC radio and TV, and other British broadcasting channels and press.



### Dr Tze Kin Lau

Dr Tze Kin Lau is a well-known clinician, researcher and teacher in fetal medicine and obstetric ultrasound. He was born and educated in Hong Kong where he obtained his basic medical degree from the Chinese University of Hong Kong (CUHK) in 1988. In 1994 he joined the Department of Obstetrics and Gynaecology of the CUHK, where he held the titles Professor and Chief-of-Service and Head of the Maternal Fetal Medicine unit, until 2011, when he moved to start his own private practice. He has published over 338 papers in refereed and indexed journals and been invited to speak at many international and regional meetings. His main research interest includes various aspects of prenatal diagnosis and treatment, in particular non-invasive prenatal testing (NIPT). He is currently the Chairman of the Chinese Fetal Medicine Foundation and Board Member of the ISUOG. TK Lau will present, as a clinician this time, his perspectives on the current and future clinical use of NIPT.



### Roger Smith

Roger Smith AM MB., BS., Hons., PhD., FRACP., FRANZCOG., FSRB is Professor of Endocrinology at the John Hunter Hospital in Newcastle, NSW and Director of the Mothers and Babies Research Centre in the Hunter Medical Research Institute. Roger trained at Sydney University and performed his PhD at St Bartholomew's Hospital in London. He has been visiting professor at Yale, Harvard, the NIH and Siena. Roger has been awarded the Order of Australia, The Santa Chiari Prize of the University of Siena and the Asia and Oceania Medal of the British Endocrine Societies. He has published over 250 manuscripts mostly on human pregnancy, including papers in The New England Journal of Medicine, Nature Medicine, Nature, Scientific American and The BMJ and his work has been reviewed in SCIENCE. He is best known for his work on the placental clock which appears to regulate the length of pregnancy in humans. He is also active in Aboriginal Health trying to improve the health outcomes for disadvantaged women.

## Program - Sunday 6 October 2013

09:00 - 10:20	Keynote lectures	Bayside Auditorium B
09:00	<b>Chairs: Y. Ville (France); A. Ngu (Australia); A. Goudie (Australia)</b> Welcome from the ISUOG President <i>Y. Ville (France)</i>	
09:05	The clinical implementation of non-invasive prenatal testing <i>T.K. Lau (Hong Kong)</i>	
09:35	Decidualisation: the key to healthy pregnancy <i>S. Quenby (United Kingdom)</i>	
10:00	Fetal origins of disparities in aboriginal health <i>R. Smith (Australia)</i>	
10:20 - 10:50	Coffee and e-poster viewing	Bayside Grand Hall
10:30 - 10:45	visuog launch	Bayside Gallery B
10:50 - 13:15	ISUOG opening plenaries	Bayside Auditorium B
	<b>Early pregnancy defines late pregnancy events</b> <b>Chairs: S. Goldstein (United States); H. Robinson (Australia)</b>	
10:50	Endometrial injury: how a pre-pregnancy event impacts on the likelihood of a successful pregnancy <i>N. Raine-Fenning (United Kingdom)</i>	
11:10	Does the ovulation-implantation interval impacts on short and long-term pregnancy outcome? <i>C. Lees (United Kingdom)</i>	
11:30	Safe criteria on which to base a diagnosis of miscarriage <i>T. Bourne (United Kingdom)</i>	
11:50	Factors impacting on early pregnancy growth <i>G. Condous (Australia)</i>	
	<b>Ian Donald Awards and ISUOG AGM</b> <b>Chairs: Y. Ville (France); A. Gagnon (Canada); K. Maršál (Sweden)</b>	
12:10	Presentation of the Ian Donald Medal 2012 to Hugh Robinson Presentation of the Ian Donald Medal 2013 to Hisaya Takeuchi <i>S. Eik-Nes (Norway); S. Campbell (United Kingdom)</i>	
12:20	Ian Donald Gold Medal acceptance <i>H. Takeuchi (Japan)</i>	
12:30	ISUOG AGM: update from the ISUOG President <i>Y. Ville (France)</i>	



## Ian Donald Gold Medal 2013 - Hisaya Takeuchi



We are pleased to welcome Prof. Takeuchi to Sydney to receive ISUOG's highest accolade, the Ian Donald Gold Medal, for his outstanding contributions to the field of ultrasound in obstetrics and gynecology. ISUOG gratefully acknowledges a grant from WFUMB to support his participation.

Prof. Takeuchi is one of the early ultrasound pioneers, leading the way in obstetric diagnosis in Japan and being the first in the country to use a commercial medial A-scanner. A medical graduate from Juntendo University, where he is now Professor Emeritus, he is regarded as a distinguished teacher, clinician and researcher. His work has spanned early cephalometry, diagnosis of fetal malformations, transvaginal scanning, Doppler and 3D Ultrasound.



## Program - Sunday 6 October 2013

### 10:50 - 13:15 Vascular I: Ovarian vein imaging *Bayside 102*

	<b>Chairs: I. Catchpole (Australia); J. Sheridan (Australia)</b>	
	LIVE SCAN	[Supported by: Siemens*]
10:50	Ovarian vein imaging and May Thurner syndrome	1A_01
	<i>I. Catchpole (Australia)</i>	

### 10:50 - 13:15 Pediatrics I: Neonatal cranial ultrasound and spine *Bayside 103*

	<b>Chair: G. McLean (Australia); L. Hardiman (Australia)</b>	
10:50	Cranial ultrasound of the pre-term and term neonate	1B_01 & 1B_02
	<i>G. McLean (Australia)</i>	
12:20	Ultrasound of the neonatal spine	1B_03
	<i>G. McLean (Australia)</i>	

### 13:15 - 14:30 Lunch and e-poster viewing *Bayside Grand Hall*

### 13:25 - 14:25 Philips Medical Systems satellite symposium\*\* *Bayside Auditorium A*

### 14:30 - 15:50 Fetal neurosonography I *Bayside Auditorium A*

	<b>Chairs: C. Bilardo (Netherlands); A. Abuhamad (United States)</b>	
14:30	Disorders of axonal guidance as visualised by fetal MRI	
	<i>D. Prayer (Austria)</i>	
14:50	LIVE SCAN: supratentorial structures	[Supported by: Toshiba*]
	<i>G. Malinge (Israel)</i>	
15:10	Corpus callosum agenesis in the fetus: sonographic signs change with advancing gestational age	OC01.01
	<i>D. Paladini; G. Pastore; A. Cavallaro; M. Massaro; C. Nappi (Italy)</i>	
15:15	Discussion	
15:18	Pericallosal lipomas may escape visualization during the second trimester scan	OC01.02
	<i>G. Malinge<sup>1</sup>; T. Lerman-Sagie<sup>1</sup>; M. Echevarria<sup>2</sup>; F. Viñals<sup>3</sup>; C. Bermejo<sup>2</sup>; L. Ben-Sira<sup>1</sup></i>	
	<sup>1</sup> (Israel); <sup>2</sup> (Spain); <sup>3</sup> (Chile)	
15:23	Discussion	
15:26	The clinical value of prenatal diagnosis of fetal brain sulci and gyri dysplasia by the combination of two-dimensional and three-dimensional ultrasonography	OC01.03
	<i>G. Lv; X. Chen (China)</i>	
15:31	Discussion	
15:34	Periventricular leukomalacia in the fetus: prenatal imaging and diagnostic features	OC01.04
	<i>D. Pugash; C. Mayer; G. Henderson; C. Dunham (Canada)</i>	
15:39	Discussion	
15:42	US volume navigation with fusion MR imaging, a novel approach for prenatal diagnosis	OC01.05
	<i>G. Malinge; T. Lerman-Sagie; M. Artzi; K. Haratz; M. Zelicovich; D. Ben-Bashat; L. Ben-Sira (Israel)</i>	
15:47	Discussion	

## Program - Sunday 6 October 2013

### 14:30 - 15:50 Pelvic pain and endometriosis *Bayside 204*

	<b>Chairs: G. Condous (Australia); J. Abbott (Australia)</b>	
	LIVE SCAN	[Supported by: Siemens*]
14:30	<i>G. Condous (Australia)</i>	
14:50	Identifying deep infiltrating endometriosis with ultrasound	OC02.01,
	<i>S. Reid<sup>1</sup>; C. Lu<sup>2</sup>; I. Casikar<sup>1</sup>; U. Menakaya<sup>1</sup>; C. Phua<sup>1</sup>; G. Condous<sup>1</sup></i>	OC02.02,
	<sup>1</sup> (Australia); <sup>2</sup> (United Kingdom)	OC02.03
15:10	Discussion	
15:15	Three dimensional (3D) ultrasonography improves the accuracy of two dimensional (2D) ultrasonography in the diagnosis of deep endometriosis	OC02.04
	<i>S. Guerriero<sup>1</sup>; S. Ajossa<sup>1</sup>; C. Peddes<sup>1</sup>; M. Perniciano<sup>1</sup>; B. Soggiu<sup>1</sup>; L. Saba<sup>1</sup>; J. Alcazar<sup>2</sup>; A. Piras<sup>1</sup>; G. Melis<sup>1</sup></i>	
	<sup>1</sup> (Italy); <sup>2</sup> (Spain)	
15:20	Discussion	
15:23	Elastography is superior to ultrasound in pre-operative assessment of abdominal wall endometriosis	OC02.05
	<i>S. Wozniak; P. Czuczwar; P. Szkodziak; E. Wozniakowska; M. Paszkowski; P. Milart; W. Wrona; T. Paszkowski (Poland)</i>	
15:28	Discussion	
15:31	Ultrasonographic "sliding sign" in the diagnosis of pouch of Douglas (POD) obliteration in women with clinical suspicion of endometriosis: relationship with the duration of surgery	OC02.06
	<i>S. Guerriero<sup>1</sup>; S. Ajossa<sup>1</sup>; C. Peddes<sup>1</sup>; M. Perniciano<sup>1</sup>; B. Soggiu<sup>1</sup>; J. Alcazar<sup>2</sup>; L. Saba<sup>1</sup>; P. Fabbri<sup>1</sup>; N. Molin Pradel<sup>1</sup>; G. Melis<sup>1</sup></i>	
	<sup>1</sup> (Italy); <sup>2</sup> (Spain)	
15:36	Discussion	
15:39	Could adenomyosis be considered as a marker of severity in intestinal endometriosis?	OC02.07
	<i>A. Millischer; B. Borghese; P. Santulli; M. Lecomte; B. Dousset; C. Chapron (France)</i>	
15:44	Discussion	

### 14:30 - 15:50 Concepts in fetal growth restriction *Bayside Gallery B*

	<b>Chairs: S. Eik-Nes (Norway); G. Parry (New Zealand)</b>	
14:30	The impact of fetal growth restriction on cardiovascular remodelling	
	<i>M. Skilton (Australia)</i>	
14:50	Discussion	
14:55	Low-dose aspirin improves trophoblastic function in early-onset pre-eclampsia	OC03.01
	<i>F.D. Costa; S. Panagodage; S. Brennecke; P. Murthi (Australia)</i>	
15:00	Discussion	
15:03	Quality control (QC) in ultrasound fetal biometry: can self-scoring replace external QC?	OC03.02
	<i>R. Napolitano; C. Cosgrove; E. Ohuma; M. McNeill; S. Wanyonyi; F. Roseman; K. Edwards; A. Papageorghiou (United Kingdom)</i>	
15:08	Discussion	

\*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.

\*\*Lunchtime satellite symposia are brought to you by our sponsors and are not part of the ISUOG CPD program. ISUOG takes no responsibility for scientific or clinical content.

## Program - Sunday 6 October 2013

15:11	Sonographic fetal weight estimation compared with actual birth weight in two consecutive deliveries <i>A. Aviram; R. Aviram; A. Ben-Haroush (Israel)</i>	OC03.03
15:16	Discussion	
15:19	Aortic wall thickness and amniotic fluid albuminuria in growth restricted twin fetuses <i>S. Visentin; M. Bertin; V. Zanardo; E. Cosmi (Italy)</i>	OC03.04
15:24	Discussion	
15:27	Gestational diabetes, endothelial damage and metabolomics markers <i>S. Visentin; M. Tucci; D. Favretto; E. Ragazzi; E. Galvan; R. Nika; G. Giunta; E. Cosmi (Italy)</i>	OC03.05
15:32	Discussion	
15:35	Prenatal evaluating method of fetal lung maturity using lung-to-liver signal intensity ratio at magnetic resonance imaging (MRI) <i>Y. Oka; T. Waseda; N. Neyatani; H. Takagi; S. Makinoda (Japan)</i>	OC03.06
15:40	Discussion	

### 14:30 - 15:50 Vascular II: Infrarenal abdominal aortic aneurysm *Bayside 102*

	<b>Chairs: I. Catchpole (Australia); D. Coghlan (Australia)</b>	
14:30	<b>Proffered paper:</b> Utility of high-frequency and conventional US in therapy monitoring of hemosiderin based discolorations developed during chronic vein insufficiency <i>R. Mlosek; B. Migda; S. Malinowska (Poland)</i>	2A_01
14:55	Waveforms normal and abnormal <i>D. Coghlan (Australia)</i>	2A_02
15:20	Infrarenal abdominal aortic aneurysm <i>D. Coghlan (Australia)</i>	2A_03

### 14:30 - 15:50 Pediatrics II: Pediatric hip and neonatal spine *Bayside 103*

	<b>Chairs: L. Hardiman (Australia); M. Tucker (Australia)</b>	
	LIVE SCAN [Supported by: GE Healthcare*]	
14:30	Paediatric hips ultrasound <i>L. Hardiman (Australia); A. Cheung (Australia)</i>	2B_01
15:10	Neonatal spine ultrasound <i>L. Hardiman (Australia); A. Cheung (Australia)</i>	2B_02

### 15:50 - 16:20 Coffee and e-poster viewing *Bayside Grand Hall*

### 16:20 - 17:40 Workshop: IUGR: detection and management *Bayside Auditorium A*

	<b>Chairs: E. Gratacós (Spain); C Lees (United Kingdom)</b>	
16:20	The use of charts in detecting late-onset IUGR <i>A. Papageorghiou (United Kingdom)</i>	
16:40	Are all late-onset IUGR the same? <i>E. Gratacós (Spain)</i>	
17:00	Clinical lessons from the TRUFFLE study <i>C. Bilardo (Netherlands)</i>	
17:20	Discussion	

## Program - Sunday 6 October 2013

### 16:20 - 17:40 Workshop: Early pregnancy *Bayside 204*

	<b>Chairs: T. Bourne (United Kingdom); S. Goldstein (United States)</b>	
16:20	Assigning risk rather than predicting location is the key to managing pregnancy of unknown location <i>T. Bourne (United Kingdom)</i>	
16:40	Expectant, medical or surgical: selecting the appropriate treatment for ectopic pregnancy and keeping your nerve <i>G. Condous (Australia)</i>	
17:00	Making sense of recurrent miscarriage: aspirin, heparin, progesterone, NK cells and the rest <i>S. Quenby (United Kingdom)</i>	
17:20	Just images <i>T. Bourne (United Kingdom)</i>	

### 16:20 - 17:40 Workshop: Monochorionic twins *Bayside Gallery B*

	<b>Chairs: K. Hecher (Germany); J. Dickinson (Australia)</b>	
16:20	TTTS current results and views about treating stage I <i>Y. Ville (France)</i>	
16:40	Discordant growth in MC twins <i>W. Sepulveda (Chile)</i>	
17:00	TTTS vs TAPS vs AF discordance: management <i>K. Hecher (Germany)</i>	
17:20	Discussion	

### 16:20 - 17:40 Vascular III: DVT and superficial thrombophlebitis *Bayside 102*

	<b>Chairs: D. Coghlan (Australia); M. Rowlinson (Australia)</b>	
	LIVE SCAN [Supported by: M4 / Philips*]	
16:20	Deep venous thrombus and superficial thrombophlebitis in pregnancy <i>D. Coghlan (Australia)</i>	3A_01

### 16:20 - 17:40 Pediatrics III: Abdomen *Bayside 103*

	<b>Chairs: N. Caplin (Australia); D. Warner (Australia)</b>	
16:20	Abdominal masses in the neonate <i>N. Caplin (Australia)</i>	
16:45	Heterotaxy <i>D. Warner (Australia)</i>	3B_01
17:10	Renal pyelectasis <i>N. Caplin (Australia)</i>	

### 17:45 - 18:25 Opening ceremony *Bayside Auditorium B*

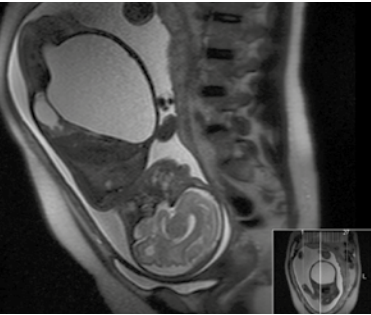
	<b>Chairs: A. Ngu (Australia); J. Hyett (Australia); G. Condous (Australia)</b>	
17:45	Welcome from the Congress chairs	
17:55	Welcome to Country	
18:10	Exclusive performance by the Mirramu Dance Company	

### 18:30 - 20:30 Welcome reception *Bayside Grand Hall*

\*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.



# ISUOG Education 2014



## Fetal anomalies and CNS

The use of ultrasound to diagnose  
congenital anomalies of the brain  
and heart.

### Course directors:

C. Bilardo (*The Netherlands*)

G. Malingier (*Israel*)

D. Paladini (*Italy*)

### Dates:

28 February - 1 March 2014

### Location:

Amsterdam, The Netherlands

### Fees:

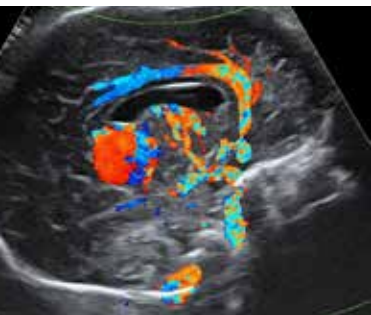
ISUOG offers reduced registration fees  
to its members.

### CME credits will be available

ISUOG has a follow up program of specialist obstetric  
ultrasound courses between March and June. For further  
information and regular updates, visit [isuog.org](http://isuog.org)

### Contact:

E: [congress@isuog.org](mailto:congress@isuog.org) T: +44 (0)20 7471 9955



## Program - Monday 7 October 2013

Parallel sessions

08:00 - 09:20

Aneuploidy and second trimester fetal anomalies I *Bayside Auditorium A*

Towards functional assessment of fetal growth *Bayside 204*

Early pregnancy *Bayside Gallery B*

Vascular IV: Renal artery and parenchymal Doppler *Bayside 102*

MSK I: Pre and post operative shoulder *Bayside 103*

Short oral presentations

09:25 - 10:05

Publishing your research: a practical approach *Bayside 102*

ASUM research I *Bayside 103*

Aneuploidy and second trimester fetal anomalies *Bayside Auditorium A*

Fetal growth restriction *Bayside 204*

Early pregnancy *Bayside Gallery B*

Parallel sessions

10:30 - 11:50

Cardiac function and geometry in normal and abnormal fetuses *Bayside Auditorium A*

Fetal neurosonography II *Bayside 204*

Reproductive medicine and IVF *Bayside Gallery B*

10:30 - 11:00

myASUM eLearning Portal Launch and ASUM AGM *Bayside 102*

11:00 - 11:50

Vascular V: Varicose veins in pregnancy *Bayside 102*

MSK II: Extremities *Bayside 103*

Short oral presentations

11:55 - 12:35

ASUM research II *Bayside 103*

Cardiac function and new technologies *Bayside Auditorium A*

Fetal neurosonography *Bayside 204*

Reproductive medicine *Bayside Gallery B*

Sponsor

12:45 - 13:45

GE Healthcare satellite symposium *Bayside Auditorium A*

Workshops

14:00 - 15:20

Routine cardiac exam: moving beyond 4C view *Bayside Auditorium A*

Abnormal uterine bleeding (OC) *Bayside 204*

Reproductive medicine *Bayside Gallery B*

Vascular VI: Arterial diseases of the lower limb *Bayside 102*

MSK III: Hip and groin pain; lateral ankle *Bayside 103*

15:50 - 17:10

Cardiovascular borderline findings *Bayside Auditorium A*

Prediction of pregnancy complications *Bayside 204*

How to characterise ovarian pathology *Bayside Gallery B*

Vascular VII: Carotid arterial disease *Bayside 102*

MSK VII: Intervention in pregnancy *Bayside 103*

MTP

17:15 - 17:55

'Meet the professor' sessions



MONDAY  
PROGRAM

# myASUM e-Learning Portal Launch & ASUM AGM

Monday 7 October  
Bayside 102  
10:30am-11am

## Come and visit the ASUM exhibition booth

Our friendly team will be holding live presentations of the **myASUM** e-Learning portal 1pm-2pm daily.

We will also be waiting to answer your **membership questions** with regard to

- Member Benefits
- Education Program offerings
  - Diploma of Diagnostic Ultrasound (DDU)
  - Certificate of Clinician Performed Ultrasound (CCPU)
  - Certificate of Allied Health Performed Ultrasound (CAHPU)
  - Diploma of Medical Ultrasound (DMU)
  - eLearning opportunities
- Research Grants
- Standards of Practice
- Conferences and Events
- Professional Advocacy Issues
- ASUM website
- Calendar of events
- Real-time newsletter
- myASUM e-Learning Portal
  - Australasian Journal of Ultrasound in Medicine (AJUM)
  - EBSCO
  - MOSIPP CPD Program
  - Continuing Professional Development (CPD) opportunities
- Clinical Handbook
- Clinical Guidelines
- Journal Club
- Case Studies
- Conference lectures with video
- Quizzes
- Web-links to online resources
- And much more .....



## Program - Monday 7 October 2013

### 08:00 - 09:20 Aneuploidy and second trimester fetal anomalies I **Bayside Auditorium A**

**Chairs: A. Ngu (Australia); G. Yeo (Singapore)**

08:00	LIVE SCAN: assessing the fetal face for dysmorphology [Supported by: GE Healthcare*] <i>D. Paladini (Italy)</i>	
08:25	Outcome of fetuses with short femur length detected at second trimester malformation scan: a national survey <i>J. Mathiesen; L. Aksglaede; L. Skibsted; O. Petersen; A. Tabor; D. Group (Denmark)</i>	OC04.01
08:30	Discussion	
08:33	Femoral metaphyseal-epiphyseal angle: a new prenatal ultrasound finding in achondroplasia <i>A. Khalil; F. D'Antonio; A. Bhide; A. Papageorghiou; B. Thilaganathan (United Kingdom)</i>	OC04.02
08:38	Discussion	
08:41	Infant outcomes following antenatal detection of facial cleft <i>T. Fanelli; C. Costa; P. Hall; S. Burton; S. Broster; T. Ahmad; C. Lees (United Kingdom)</i>	OC04.03
08:46	Discussion	
08:49	Forehead assessment in normal and pathological fetuses by the fetal profile line <i>E. de Jong; F. Vos; M. Bakker; L. Ribbert; C. Bilardo (Netherlands)</i>	OC04.04
08:54	Discussion	
08:57	Fetal facial shape: 3D study of height and width in the second and third trimester of pregnancy <i>A. den Boogert; E. de Jong; L. Ribbert; E. Tromp; L. Pistorius; C. Bilardo (Netherlands)</i>	OC04.05
09:02	Discussion	
09:05	Additive manufacturing models of fetuses built from 3D ultrasound and magnetic resonance imaging for blind pregnant patients <i>H. Heron<sup>1</sup>; J. Lopes dos Santos<sup>1</sup>; R. Fontes<sup>1</sup>; S. Belmonte<sup>1</sup>; P. Dalto<sup>1</sup>; C. Scudleri Paes Werner<sup>1</sup>; S. Campbell<sup>2</sup></i> <sup>1</sup> (Brazil); <sup>2</sup> (United Kingdom)	OC04.06
09:10	Discussion	

### 08:00 - 09:20 Towards functional assessment of fetal growth **Bayside 204**

**Chairs: A. Papageorghiou (United Kingdom); A. Welsh (Australia)**

08:00	Towards functional assessment of fetal growth <i>W. Lee (United States)</i>	
08:10	LIVE SCAN [Supported by: Siemens*] <i>E. Gratacós (Spain)</i>	
08:30	<sup>YI</sup> Relationship between maternal cardiovascular adaptation, fetal growth and birthweight <i>A. Mahendru; T. Everett; C. McEniery; I. Wilkinson; C. Lees (United Kingdom)</i>	OC05.01
08:35	Discussion	
08:38	Which is best for fetal head biometry: the transthalamic or transventricular plane? <i>R. Napolitano; V. Donadono; E. Ohuma; C. Knight; S. Wanyonyi; B. Kemp; T. Norris; A. Papageorghiou (United Kingdom)</i>	OC05.02
08:43	Discussion	

\*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.  
<sup>YI</sup> This presentation is eligible for the Young Investigator award (to be presented at the closing session).

## Program - Monday 7 October 2013

08:46	Assessment of fetal nutrition status through limb volume measurement by 3D ultrasound and correlated with newborn anthropometric data <i>R. Cavalcante; F. Barros; A. Caetano; A. Zamarian; E. Araujo Junior; L. Nardoza; A. Moron (Brazil)</i>	OC05.03
08:51	Discussion	
08:54	Fetal arm volumetry: a novel assessment of fetal body composition in the second and third trimester <i>C. Knight; S. Rueda; M. Ahmed; K. Edwards; J. Noble; A. Papageorgiou (United Kingdom)</i>	OC05.04
08:59	Discussion	
09:02	The effect of antenatal dietary and lifestyle advice on fetal body composition in women who are overweight or obese: findings from the LIMIT randomised trial <i>R. Grivell; L. Yelland; R. Earl; C. Staehr; J. Dodd (Australia)</i>	OC05.05
09:07	Discussion	
09:10	Perinatal prognostic factors for outcome at 18 months of age in preterm growth-restricted infants <i>J. Sasahara; K. Ishii; T. Taguchi; S. Hayashi; N. Mitsuda (Japan)</i>	OC05.06
09:15	Discussion	

### 08:00 - 09:20 Early pregnancy **Bayside Gallery B**

**Chairs: J. Ludlow (Australia); S. Goldstein (United States)**

08:00	The relevance of intrauterine findings in early pregnancy: how likely is this to predict ectopic pregnancy <i>S. Goldstein (United States)</i>	
08:20	Management issues with miscarriage: selection for different management: the two-week rule and the value of Doppler <i>I. Casikar (Australia)</i>	
08:40	Ultrasound-guided transcervical forceps extraction of Cesarean scar or cervical pregnancy <i>S. Lee; S. Lee; H. Lee (Republic of Korea)</i>	OC06.01
08:45	Discussion	
08:48	Computer simulation of the HCG ratios and its values in predicting non-viable pregnancy of HCG <i>M. Mongelli; F. Infante; U. Menakaya; G. Condous (Australia)</i>	OC06.02 & OC06.03
08:53	Discussion	
08:56	Interstitial pregnancy: 10-year review of management options and outcomes at a tertiary level hospital in Australia <i>P. Charan; H. Tran; S. Lee; R. Palma-Dias; N. Woodrow (Australia)</i>	OC06.04
09:01	Discussion	
09:04	3D ultrasound of the endometrial cavity to predict PUL outcome <i>S. Reid<sup>1</sup>; C. Lu<sup>2</sup>; I. Casikar<sup>1</sup>; F. Infante<sup>1</sup>; G. Condous<sup>1</sup> (Australia); <sup>2</sup>(United Kingdom)</i>	OC06.05 & OC06.06
09:09	Discussion	
09:12	Is there a correlation between aberrant embryonic crown-rump length growth velocities and subsequent birth weights? <i>M. Mongelli<sup>1</sup>; C. Lu<sup>2</sup>; S. Reid<sup>1</sup>; N. Stamatopoulos<sup>1</sup>; K. Sankaralingam<sup>1</sup>; I. Casikar<sup>1</sup>; N. Hardy<sup>2</sup>; G. Condous<sup>1</sup> (Australia); <sup>2</sup>(United Kingdom)</i>	OC06.07
09:17	Discussion	

## Program - Monday 7 October 2013

### 08:00 - 09:20 Vascular IV: Renal artery and parenchymal Doppler **Bayside 102**

**Chairs: I. Catchpole (Australia); J. Sheridan (Australia);**

LIVE SCAN

[Supported by: Siemens\*]

*D. Coghlan (Australia)*

08:00 Renal artery and parenchymal Doppler in pregnancy

4A\_01

*D. Coghlan (Australia)*

### 08:00 - 09:20 MSK I: Pre and post operative shoulder **Bayside 103**

**Chairs: L. Hackett (Briggs) (Australia); G. Clarke (Australia)**

LIVE SCAN

[Supported by: Samsung Medison\*]

08:00 The pre and post operative shoulder

4B\_01

*L. Hackett (Briggs) (Australia)*

### 09:25 - 10:05 Publishing your research: a practical approach **Bayside 102**

**Moderator: B. Thilaganathan (United Kingdom)**

Practical tips on getting your research published

*G. Condous (Australia)*

09:25 Deciding what to publish: what the Editor looks for

*J. Dickinson (Australia)*

09:55 Discussion

### 09:25 - 10:05 ASUM research I **Bayside 103**

**Chairs: S. Westeway (Australia); D. Coghlan (Australia)**

09:25 Application of spatio-temporal imaging correlation (STIC) to the placenta and fetal kidney to evaluate perfusion using novel volumetric pulsatility indices

6B\_01

*A. Welsh (Australia)*

09:45 Fractional moving blood volume (FMBV) using Doppler images as a measure of cerebral perfusion in the neonate

6B\_02

*A. Welsh (Australia)*

### 09:25 - 10:05 Short oral presentation (OP) sessions

**OP01: Aneuploidy and second trimester fetal anomalies **Bayside Auditorium A****

**Chairs: B. Benacerraf (United States); J. Vaughan (Australia)**

**OP02: Fetal growth restriction **Bayside 204****

**Chairs: S. Walker (Australia); S. Eik-Nes (Norway)**

**OP03: Early pregnancy **Bayside Gallery B****

**Chairs: R. Benzie (Australia); S. Reid (Australia)**

### 10:00 - 10:30 Coffee and e-poster viewing **Bayside Grand Hall**

### 10:30 - 11:50 Cardiac function and geometry in normal and abnormal fetuses **Bayside Auditorium A**

**Chairs: A. Abuhamad (United States); R. Mogra (Australia)**

LIVE SCAN: fetal heart 2D and colour

[Supported by: Toshiba\*]

*R. Chaoui (Germany)*

10:30 Discussion

\*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.

## Program - Monday 7 October 2013

10:55	Left heart geometry and function in congenital diaphragmatic hernia (CDH) <i>M. Bebbington; Z. Tian; J. Rychik (United States)</i>	OC07.01
11:00	Discussion	
11:03	The use of speckle tracking in cardiac function assessment in fetuses with congenital diaphragmatic hernia <i>P. DeKoninck; J. D'hooge; T. Van Mieghem; J. Richter; L. De Catte; J. Deprest (Belgium)</i>	OC07.02
11:08	Discussion	
11:11	Cardiac assessment in fetuses with right-sided congenital diaphragmatic hernia (RCDH): a case-controlled study <i>P. DeKoninck; J. Richter; T. Van Mieghem; D. Van Schoubroeck; K. Allegaert; L. De Catte; J. Deprest (Belgium)</i>	OC07.03
11:16	Discussion	
11:19	Postnatal outcome in newborns with congenital diaphragmatic hernia associated with cardiac defects: a single centre experience <i>P. Javadian; R. Ruano; A. Shamshirsaz; D. Cass; I. Zamora; T. Lee; C. Cassidy; A. Mehollin-Ray; S. Welty; C. Fernandes; N. A. Ayres; S. A. Maskati; J. A. Kalin; M. Belfort; O. Olutoye (United States)</i>	OC07.04
11:24	Discussion	
11:27	A comparison of myocardial velocity information derived by pulsed and colour Doppler techniques <i>E. Sinkovskaya; A. Klassen; A. Abuhamad (United States)</i>	OC07.05
11:32	Discussion	
11:35	Differences in fetal electrocardiographic intervals among fetuses with normal cardiac anatomy and fetuses with CHD as measured using the MONICA AN24 <i>B. Yilmaz; H. Narayan; A. Wilpers; C. Wiess; W. Fifer; I. Williams (United States)</i>	OC07.06
11:40	Discussion	

### 10:30 - 11:50 Fetal neurosonography II Bayside 204

**Chairs: G. Malinge (Israel); S. Sinnott (Australia)**

10:30	LIVE SCAN: posterior fossa and spine <i>K. Kalache (Germany)</i>	[Supported by: Philips*]
10:50	Novel MRI tools for fetal CNS assessment <i>D. Prayer (Austria)</i>	
11:10	Discussion	
11:15	Inferior vermian hypoplasia: preconceptions, misconceptions <i>A. Robinson (Canada)</i>	OC08.01
11:20	Discussion	
11:23	<sup>YI</sup> Neurodevelopmental outcome in isolated mild ventriculomegaly: systematic review and meta-analysis <i>G. Pagan<sup>1,2</sup>; F. Prefumo<sup>2</sup>; B. Thilaganathan<sup>1</sup> <sup>1</sup>(United Kingdom); <sup>2</sup>(Italy)</i>	OC08.02
11:28	Discussion	
11:31	Prenatal prediction of the need for a ventriculo-peritoneal shunt in spina bifida <i>A. Khalil; V. Caric; A. Bhide; A. Papageorghiou; B. Thilaganathan (United Kingdom)</i>	OC08.03
11:36	Discussion	
11:39	The 'brain shadowing sign': a simple marker of fetal craniosynostosis <i>K. Haratz<sup>1</sup>; T. Lerman-Sagie<sup>1</sup>; D. Lev<sup>1</sup>; A. Moron<sup>2</sup>; G. Malinge<sup>1</sup> <sup>1</sup>(Israel); <sup>2</sup>(Brazil)</i>	OC08.04
11:44	Discussion	

## Program - Monday 7 October 2013

### 10:30 - 11:50 Reproductive medicine and IVF Bayside Gallery B

**Chairs: S. Campbell (United Kingdom); M. Bowman (Australia)**

10:30	What can ultrasound tell me about a women's potential fertility: are AMH and antral follicle relevant outside IVF <i>N. Raine-Fenning (United Kingdom)</i>	
10:50	Discussion	
10:55	<sup>YI</sup> Ovarian hyper stimulation syndrome and adverse obstetric outcome: systematic review and meta-analysis <i>F. D'Antonio; G. Pagani; A. Bhide; B. Thilaganathan; A. Khalil (United Kingdom)</i>	OC09.01
11:00	Discussion	
11:03	What is the significance of an intertwin size discrepancy in the first trimester of IVF pregnancies? <i>S. Sur; A. Mahendru; B. Campbell; N. Raine-Fenning (United Kingdom)</i>	OC09.02
11:08	Discussion	
11:11	A carotid ultrasound study of the effectiveness of hormone therapy in preventing arteriosclerosis in women with premature ovarian failure and in menopausal women <i>S. Igarashi; T. Nako; J. Kakogawa; A. Tozawa; B. Ishizuka; M. Tanaka; N. Suzuki (Japan)</i>	OC09.03
11:16	Discussion	
11:19	Ultrasound for monitoring controlled ovarian stimulation: a systematic review and meta-analysis of randomized controlled trials <i>W. Martins; C. Vieira; D. Teixeira; M. Barbosa; L. Dassunção; C. Natri (Brazil)</i>	OC09.04
11:24	Discussion	
11:27	Endometrial injury reduces local blood flow without affecting endometrial growth and increases the chance of pregnancy: preliminary results from an RCT <i>L. Polanski<sup>1</sup>; M. Baumgarten<sup>1</sup>; W. Martins<sup>2,2</sup>; B. Campbell<sup>1</sup>; N. Raine-Fenning<sup>1</sup> <sup>1</sup>(United Kingdom); <sup>2</sup>(Brazil)</i>	OC09.05
11:32	Discussion	
11:35	Ultrasound assessment of the success of post-placental and post Cesarean intrauterine contraceptive device (Copper T) insertion <i>T. Dias; S. Abeykoon; G. Liyanage; S. Kumarasiri; T. Padeniya (Sri Lanka)</i>	OC09.06
11:40	Discussion	

### 10:30 - 11:00 myASUM eLearning Portal Launch and ASUM AGM Bayside 102

**Chairs: A. Goudie (Australia); A. Gibbins (Australia)**

AGM  
eLearning Launch



### 11:00 - 11:50 Vascular V: Varicose veins in pregnancy Bayside 102

**Chairs: I. Catchpole (Australia); R. Petersen (Australia)**

Varicose veins in pregnancy  
*I. Catchpole (Australia)*

5A\_01

\*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.  
<sup>YI</sup> This presentation is eligible for the Young Investigator award (to be presented at the closing session).

## Program - Monday 7 October 2013

### 11:00 - 11:50 MSK II: Extremities *Bayside 103*

	<b>Chairs: D. Walkley (Australia); J. Sheridan (Australia)</b>	
	LIVE SCAN	[Supported by: Siemens*]
11:00	The wrist - Carpal tunnel De Quervain's tenosynovitis	5B_01
	<i>D. Walkley (Australia)</i>	
11:25	Medial ankle	5B_02
	<i>D. Walkley (Australia)</i>	

### 11:55 - 12:35 ASUM research II *Bayside 103*

	<b>Chairs: S. Westerway (Australia); D. Coghlan (Australia)</b>	
11:55	Ultrasound assessment of maternal cardiac function as a predictive tool for pre-eclampsia	6A_01
	<i>K. Russo (Australia); R. Grivell (Australia); L. Simmons (Australia); J. Hyett (Australia)</i>	
12:05	Parametric contrast enhanced ultrasound may enable accurate differentiation between adrenal nodular hyperplasia and adenomas	6A_02
	<i>R. Slapa; A. Kasperlik-Zaluska; B. Migda; W. Jakubowski (Poland)</i>	
12:15	Prenatal detection of coarctation of the aorta using Doppler velocimetry to detect a diastolic tail in the aortic isthmus	6A_03
	<i>J. Woolcock (Australia)</i>	

### 11:55 - 12:35 Short oral presentation (OP) sessions

<b>OP04: Cardiac function and new technologies</b>	<i>Bayside Auditorium A</i>
<i>Chairs: A. Abuhamad (United States); J. Copel (United States)</i>	
<b>OP05: Fetal neurosonography</b>	<i>Bayside 204</i>
<i>Chairs: D. Prayer (Austria); A. Robinson (Canada)</i>	
<b>OP06: Reproductive medicine</b>	<i>Bayside Gallery B</i>
<i>Chairs: N. Raine-Fenning (United Kingdom); S. Siva (Australia)</i>	

### 12:30 - 14:00 Lunch and e-poster viewing *Bayside Grand Hall*

### 12:45 - 13:45 GE Healthcare satellite symposium\*\* *Bayside Auditorium A*

### 14:00 - 15:20 Workshop: Routine cardiac exam: moving beyond 4C view *Bayside Auditorium A*

	<b>Chairs: J. Carvalho (United Kingdom); S. Yagel (Israel)</b>	
14:00	Why move beyond the 4 chamber view?	
	<i>J. Copel (United States)</i>	
14:20	Systematic examination of the heart (based on ISUOG guidelines) and how to get normal views of the vessels	
	<i>S. Yagel (Israel)</i>	
14:40	How do I pick up transposition?	
	<i>J. Carvalho (United Kingdom)</i>	
15:00	Quiz: normal views and common anomalies of the vessels	

\* Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.

\*\* Luncheon satellite symposia are brought to you by our sponsors and are not part of the ISUOG CPD program. ISUOG takes no responsibility for scientific or clinical content.

## Program - Monday 7 October 2013

### 14:00 - 15:20 Abnormal uterine bleeding *Bayside 204*

	<b>Chairs: B. Benacerraf (United States); G. McNally (Australia)</b>	
14:00	Planning hysteroscopic resection of fibroids: how does ultrasound assist the hysteroscopic surgeon?	
14:20	<sup>YI</sup> Comparative study of two- and three-dimensional sonohysterography versus office hysteroscopy for the evaluation of uterine cavity in the reproductive age	OC10.01
	<i>M. Salman; N. Abou Salem; W. El Sherbiny; A. El-Mazny (Egypt)</i>	
14:25	Discussion	
14:28	<sup>YI</sup> Inter-observer variation in diagnosing adenomyosis using two- and three-dimensional transvaginal ultrasound	OC10.02
	<i>C. Rasmussen; M. Dueholm; N. Uldbjerg (Denmark)</i>	
14:33	Discussion	
14:36	Control of progesterone releasing intrauterine device insertion with 3D transvaginal ultrasound	OC10.03
	<i>O. Gonzalez; M. Reyes; J. Nien; J. Ortiz; I. Rojas (Chile)</i>	
14:41	Discussion	
14:44	The prevalence of sonographic signs of adenomyosis in women undergoing surgery for endometriosis	OC10.04
	<i>V. Eisenberg; A. Weintraub; G. Bibi; M. Zolti; E. Schiff; M. Goldenberg; D. Soriano (Israel)</i>	
14:49	Discussion	
14:52	Studying inter-rater agreement of sonographic video clips using Clinical Data Miner	OC10.05
	<i>A. Installe; T. Van den Bosch; B. De Moor; D. Timmerman (Belgium)</i>	
14:57	Discussion	
15:00	Correlation between pre-interventional intramural leiomyoma volume and the outcome of uterine artery embolization	OC10.06
	<i>P. Czuczwar; S. Wozniak; P. Szkodziak; M. Paszkowski; E. Wozniakowska; P. Milart; W. Wrona; T. Paszkowski (Poland)</i>	
15:05	Discussion	

### 15:08 OP22: Abnormal uterine bleeding short oral presentations *Bayside 204*

### 14:00 - 15:20 Workshop: Reproductive medicine *Bayside Gallery B*

	<b>Chairs: N. Raine-Fenning (United Kingdom)</b>	
14:00	Once we know that a woman has oligomenorrhoea and hyperandrogenism, do we really need to scan the pelvis to assess for polycystic ovaries?	
	<i>J. Eden (Australia)</i>	
14:20	How do we assess them with ultrasound, and are fibroids and congenital uterine abnormalities a cause of subfertility and miscarriage - and does treatment help?	
	<i>N. Raine-Fenning (United Kingdom)</i>	
14:40	Predicting ovarian reserved response: the evidence base	
	<i>G. Reid (Australia)</i>	
15:00	Discussion	

<sup>YI</sup> This presentation is eligible for the Young Investigator award (to be presented at the closing session).

## Program - Monday 7 October 2013

### 14:00 - 15:20 Vascular VI: Arterial diseases of the lower limb *Bayside 102*

**Chairs:** *I. Catchpole (Australia); R. Petersen (Australia)*

LIVE SCAN [Supported by: Toshiba\*]

14:00 Arterial diseases of the lower limb 7A\_01  
*I. Catchpole (Australia)*

### 14:00 - 15:20 MSK III: Hip and groin pain; lateral ankle *Bayside 103*

**Chairs:** *L.A. Grimshaw (Australia); M. Tucker (Australia)*

LIVE SCAN [Supported by: GE Healthcare\*]

14:00 Pregnancy related hip and groin pain 7B\_01

*L. Grimshaw (Australia)*

14:40 Ultrasound of the lateral ankle 7B\_02

*L. Grimshaw (Australia)*

### 15:20 - 15:50 Coffee and e-poster viewing *Bayside Grand Hall*

### 15:50 - 17:10 Workshop: Cardiovascular borderline findings *Bayside Auditorium A*

**Chairs:** *D. Paladini (Italy); R. Chaoui (Germany); A. Abuhamad (United States)*

15:50 Mild ventricular disproportion: does it matter?

*D. Paladini (Italy)*

16:10 Aortic arch to the right? Normal variant or cardiac defect?

*R. Chaoui (Germany)*

16:30 Cardiac axis deviation in the second and first trimester?

*A. Abuhamad (United States)*

16:50 Discussion

### 15:50 - 17:10 Workshop: Prediction of pregnancy complications *Bayside 204*

**Chairs:** *A. Tabor (Denmark); B. Thilaganathan (United Kingdom)*

15:50 First trimester prediction of PE

*J. Hyett (Australia)*

16:10 First / second trimester prediction of pre-term birth

*A. Tabor (Denmark)*

16:30 Prediction of complications in the third trimester

*E. Gratacós (Spain)*

16:50 Discussion

## Program - Monday 7 October 2013

### 15:50 - 17:10 Workshop: How to characterise ovarian pathology - why a report saying "complex ovarian mass" is no longer acceptable *Bayside Gallery B*

**Chairs:** *T. Bourne (United Kingdom); P. Ramsay (Australia)*

15:50 Pattern recognition and simple descriptors to classify ovarian masses

*T. Bourne (United Kingdom)*

16:05 IOTA simple rules and why tumor markers are a waste of time

*A. Testa (Italy)*

16:20 Using prediction models on your IPAD to tell you the nature of an ovarian cyst

*E. Epstein (Sweden)*

16:35 The features of specific types of ovarian cyst: borderline, cystadenofibromas, granulosa and Sertoli-Leydig tumors

*A. Testa (Italy)*

16:50 Just images

*T. Bourne (United Kingdom)*

### 15:50 - 17:10 Vascular VII: Carotid arterial disease *Bayside 102*

**Chairs:** *D. Coghlan (Australia); R. Petersen (Australia)*

LIVE SCAN [Supported by: Toshiba\*]

15:50 Carotid arterial disease 8A\_01

*D. Coghlan (Australia)*

### 15:50 - 17:10 MSK IV: Intervention in pregnancy *Bayside 103*

**Chairs:** *W. Cormick (Australia); M. Rowlinson (Australia)*

LIVE SCAN [Supported by: M4 / Philips\*]

15:50 Musculoskeletal intervention in pregnancy - 8B\_01

buttock, lumbar spine and sciatic nerve

*W. Cormick (Australia); L. Hicks (Australia)*

### 17:15 - 17:55 'Meet the professor' sessions

Third trimester neurosonography, what to look for *Bayside Auditorium A*  
*G. Malinge (Israel)*

First trimester screening of pregnancy complications *Bayside 204*  
*J. Hyett (Australia)*

Doppler in all trimesters *Bayside Gallery B*  
*C. Bilardo (Netherlands)*

Normal and abnormal corpus callosum (PEND) *Bayside 102*  
*R. Chaoui (Germany)*

Endometriosis: selection for appropriate laproscopic surgery *Bayside 103*  
*G. Condous (Australia)*



## OP - Monday 7 October 2013

**OP01: Aneuploidy and second trimester fetal anomalies** **Bayside Auditorium A**

**Chairs: B. Benacerraf (United States); J. Vaughan (Australia)**

Prevalence, clinical impact and recurrence risk of genetic disorders in prenatal medicine: lessons from our unit over 15 years <i>A. Schröder (Germany)</i>	OP01.01
Discrepancies between antenatal and postnatal diagnosis of anomaly in recent 3 years in SNUH <i>S. Kim (Republic of Korea)</i>	OP01.02
Pregnancy termination due to fetal anomaly; womens reactions, satisfaction and experiences of care <i>N. Asplin (Sweden)</i>	OP01.03
Late termination of pregnancy in Israel: the effect of a policy change <i>R. Aviram (Israel)</i>	OP01.04
Medical termination for fetal abnormalities in the second trimester <i>H. Wong (Australia)</i>	OP01.05
Obstetrician/genetician team work, a must for quality prenatal diagnosis <i>M. Petrache (Romania)</i>	OP01.06
Prenatal diagnosis of congenital diarrhea using color Doppler ultrasonography <i>Y. Mano (Japan)</i>	OP01.07
A case of unilateral congenital short femur in an otherwise healthy infant <i>M. Kudla (Poland)</i>	OP01.08
The outcome of gastroschisis as influenced by the timing of prenatal diagnosis. A single hospital experience <i>R. Findlay (Australia)</i>	OP01.09

**OP02: Fetal growth restriction** **Bayside 204**

**Chairs: S. Walker (Australia); S. Eik-Nes (Norway)**

Opening of the uterine isthmus at 11-13 weeks' gestation is not related to developmental abnormalities of the placenta <i>J. Hasegawa (Japan)</i>	OP02.01
First trimester combined screening and second trimester aorta intima-media thickness: preliminary data <i>E. Cosmi (Italy)</i>	OP02.02
Correlation of maternal ophthalmic artery Doppler indices with maternal-fetal parameters in pregnancies with fetal growth restriction: preliminary results <i>F. Barros (Brazil)</i>	OP02.03
Kidney volumes through pregnancy in adequate, small for gestational age, and intrauterine growth restricted fetuses <i>E. Cosmi (Italy)</i>	OP02.04
Doppler sonographic measurement of both umbilical arteries in pregnancies complicated by IUGR and/or PE <i>C. Hofstaetter (Switzerland)</i>	OP02.05
Being antepartum small for gestational age or not: that is the question <i>E. Cosmi (Italy)</i>	OP02.06
Fetal fat index: a novel technique to assess fetal arm fat <i>C. Knight (United Kingdom)</i>	OP02.07
Abstract withdrawn	OP02.08
Perinatal outcomes of fetuses with growth restriction: comparison between two groups with different estimated fetal weight <i>F. Barros (Brazil)</i>	OP02.09
Slowing of fetal growth in late pregnancy is a feature of placental insufficiency among apparently well grown fetuses <i>S. Walker (Australia)</i>	OP02.10

## OP - Monday 7 October 2013

**OP03: Early pregnancy** **Bayside Gallery B**

**Chairs: R. Benzie (Australia); S. Reid (Australia)**

Patient satisfaction after surgical treatment of ectopic pregnancy <i>O. Olowu (United Kingdom)</i>	OP03.01
The success rate of medical management of miscarriage and its impact on the choice of miscarriage management <i>C. Wong (Australia)</i>	OP03.02
Does the presence of subchorionic haematoma increase the risk of miscarriage? <i>N. Stamatopoulos (Australia)</i>	OP03.03
An illustrated case report of the diagnosis, treatment and follow up of Cesarean scar pregnancy occurring twice in the same patient <i>M. Baumgarten (Belgium)</i>	OP03.04
Hematosalpinx in early pregnancy: a management dilemma <i>F. Ajibade (United Kingdom)</i>	OP03.05
Laparoscopic management of ectopic pregnancy: 12 year experience <i>O. Olowu (United Kingdom)</i>	OP03.06
Length and volume measurements using virtual reality in the evaluation of miscarriages <i>L. Baken (Netherlands)</i>	OP03.07
Cervical length increases in first trimester pregnancies of women undergoing in vitro fertilization treatment <i>M. Baumgarten (United Kingdom)</i>	OP03.08
Can miscarriage be predicted in women who present with a viable pregnancy at the first early pregnancy scan? <i>N. Stamatopoulos (Australia)</i>	OP03.09

**OP04: Cardiac function and new technologies** **Bayside Auditorium A**

**Chairs: A. Abuhamad (United States); J. Copel (United States)**

Cardiac conduction in early onset small for gestational age and growth restricted fetuses <i>T. Fanelli (United Kingdom)</i>	OP04.01
Clinical course and outcome of antenatally detected atrioventricular block: experience of single tertiary centre and review of the literature <i>L. Salomon (France)</i>	OP04.02
Natural history of bradyarrhythmia with prenatally diagnosed Polysplenia <i>M. Kawataki (Japan)</i>	OP04.03
Isolated RV dysfunction: a sign of premature closure of ductus arteriosus <i>S. Gokhale (India)</i>	OP04.04
Time interval assessment of ventricular inflow patterns in normal singleton fetuses <i>Y. Kurihara (Japan)</i>	OP04.05
The new application of dual Doppler to the flow of SVC and AO <i>M. Kawataki (Japan)</i>	OP04.06
The new application of dual Doppler to Tei Index of the right heart <i>M. Kawataki (Japan)</i>	OP04.07
Delta-MPI in pathological versus uncomplicated pregnancy: a value-add to right and left mod-MPI? <i>A. Henry (Australia)</i>	OP04.08
Normal ranges for the right modified myocardial performance index (RMPI) in the Australian population using three alternative caliper placements <i>N. Meriki (Saudi Arabia)</i>	OP04.09
Assessment of area strain, twist, torsion and rotation in fetal echocardiography using three-dimensional (3D) wall motion tracking technology <i>C. Enzensberger (Germany)</i>	OP04.10

## OP - Monday 7 October 2013

## OP05: Fetal neurosonography

Bayside 204

**Chairs: D. Prayer (Austria); A. Robinson (Canada)**

Correlation between isolated fetal cerebral ventriculomegaly and fetal and neonatal alloimmune thrombocytopenia OP05.01

*F. Audibert (Canada)*

Corroboration of normal and abnormal fetal cerebral lamination on post-mortem sonography with neuropathological examination OP05.02

*D. Pugash (Canada)*

Normal development of fetal cortical fissures: a longitudinal three-dimensional ultrasound study OP05.03

*A. Youssef (Italy)*

Nomograms for the fetal optic nerve sheath diameter OP05.04

*G. Malinger (Israel)*

The clinical value of the three-dimensional ultrasonography in measurement of fetal choroid plexus and lateral ventricle volume OP05.05

*G. Lv (China)*

3D ultrasound MR fusion: an experimental approach OP05.06

*A. Lee (Australia)*

Prenatal ultrasonography evaluation of an intracranial tumor: a case report OP05.07

*P. Pina (Portugal)*

Prenatal evaluation of the conus medullaris position in normal fetuses and fetuses with spina bifida occulta with three-dimensional ultrasound OP05.08

*H. Xie (China)*

Spina bifida: don't forget the fibers! A new sign when it's difficult OP05.09

*J. Develay-Morice (France)*

## OP06: Reproductive medicine

Bayside Gallery B

**Chairs: N. Raine-Fenning (United Kingdom); S. Siva (Australia)**

Transvaginal three-dimensional hysterosalpingo-contrast sonography with Sonovue versus X-ray hysterosalpingography in the evaluation of tubal patency OP06.01

*X. Zhang (China)*

Evaluation of uterine transverse diameter in Müllerian duct anomalies OP06.02

*M. Pascual (Spain)*

Fundal length decreases in first trimester pregnancies of women undergoing in vitro fertilization treatment OP06.03

*M. Baumgarten (United Kingdom)*

Three-dimensional hysterosalpingo contrast sonography with positive and negative contrast agent in infertility OP06.04

*L. Wang (China)*

Gelofusin as an ultrasound contrast agent for HyCoSy tubal patency assessment: discussion and review of first 100 cases OP06.05

*V. Lanzarone (Australia)*

Evaluation of intrauterine adhesions by SIS prior to operative hysteroscopy OP06.06

*J. Lemer (United States)*

The role of uterine transverse diameter in the diagnostic of septate uterus in clinic practice OP06.07

*M. Pascual (Spain)*

Three-dimensional ultrasonography for diagnosis of intrauterine abnormalities in women with recurrent first trimester miscarriage OP06.08

*M. Li (China)*

Reliability of measurements of junctional zone at three-dimensional transvaginal ultrasound in fertile women OP06.09

*C. Rasmussen (Denmark)*

## OP - Monday 7 October 2013

## OP22: Abnormal uterine bleeding

Bayside 204

**Chairs: B. Benacerraf (United States); G. McNally (Australia)****Please note these abstracts are presented at the end of the 'Abnormal uterine bleeding' oral communication session from 15:08hrs onwards**

Comparison of uterus volume measurements in patients with adenomyosis using two-dimensional and three-dimensional ultrasound OP22.01

*H. Cho (Republic of Korea)*

Role of contrast-enhanced ultrasonography and quantitative analysis in the diagnosis of incomplete medical abortion OP22.02

*Y. Zhou (China)*

3D assessment of the uterine cavity by 'Fly Thru' imaging: a feasibility study OP22.03

*S. Rajendran (Australia)*

Inner uterine dimensions on 3D ultrasound OP22.04

*H. Wong (Australia)*



## Ultrasound in rural settings: ISUOG Outreach

Tuesday  
8 October 2013  
15:30 - 16:50

*Bayside 102*



The ISUOG **Outreach** program provides intensive hands-on training in ultrasound, supported by essential theoretical knowledge, in underserved regions of the world.

Each ISUOG Outreach training project is preceded by a comprehensive needs assessment and is targeted specifically to local needs. ISUOG Outreach has teaching programs in South Africa, Haiti, Ghana, Somaliland and Mongolia.

Join us at the ISUOG Outreach Workshop, which is open to all delegates, exhibitors & Outreach partners free of charge. If you are an ISUOG Outreach Volunteer, interested in finding out more, or keen to take part in a future project, please come along. Learn about the ongoing research and on-the-ground experience from trainers and trainees of the ISUOG Outreach Program.

More information about ISUOG Outreach projects can be found on the ISUOG website:

[isuog.org/outreach](http://isuog.org/outreach)

Or write to us at [outreach@isuog.org](mailto:outreach@isuog.org)



## Program - Tuesday 8 October 2013

**Plenary** 08:00 - 09:20  
Plenary including top abstracts *Bayside Auditorium A*

**Short oral presentations** 09:25 - 10:05  
Second trimester anomalies and aneuploidies *Bayside Auditorium A*  
Fetal growth and Doppler *Bayside 204*  
Characterising ovarian pathology *Bayside Gallery B*  
Fetal interventions *Bayside 102*  
Ultrasound assessment of pre-term and term labour *Bayside 103*

**Parallel sessions** 10:30 - 11:50  
Cardiac function in the assessment and prediction of disease *Bayside Auditorium A*  
Maternal fetal Doppler *Bayside 204*  
Characterising ovarian pathology *Bayside Gallery B*

**Short oral presentations** 11:55 - 12:35  
Congenital heart disease *Bayside Auditorium A*  
Assessment in late pregnancy and labour *Bayside 204*  
Ultrasound in oncology *Bayside Gallery B*  
Imaging technologies *Bayside 102*  
Pelvic pain and endometriosis *Bayside 103*

**Sponsor** 12:40 - 13:40  
Toshiba Medical Systems satellite symposium *Bayside Auditorium A*

**Parallel sessions** 13:45 - 15:05  
CHD: from first trimester to post-mortem imaging *Bayside Auditorium A*  
Congenital infections *Bayside 204*  
Ultrasound in oncology *Bayside Gallery B*

**Workshops** 15:30 - 16:50  
Intrapartum ultrasound *Bayside Auditorium A*  
Oncology *Bayside 204*  
3D *Bayside Gallery B*  
Ultrasound in rural settings: ISUOG Outreach *Bayside 102*  
Menopause and screening *Bayside 103*

**MTP** 16:55 - 17:35  
'Meet the professor' sessions

**Social** 19:00 - 00:00  
Congress party (tickets cost \$125 per person) *Waterfront & Wolfies*

# ISUOG Education 2014



## Gynecology intensive courses

### Imaging in oncology (IOTA)

Course director: *T. Bourne*

Date: 17 - 18 January 2014

Location: London, UK

### Hands on use of ultrasound to diagnose endometriosis

Course director: *G. Condous*

Date: 21 - 22 February 2014

Location: Sydney, Australia

### Early pregnancy and infertility

Course director: *T. Bourne*

Date: 6 - 7 June 2014

Location: London, UK

### Fees:

ISUOG offers reduced registration fees to its members. Visit our website for further information and regular updates on upcoming courses.

### CME credits will be available

### Registration & contact:

Register online at [isuog.org](http://isuog.org)

E: [congress@isuog.org](mailto:congress@isuog.org) T: +44 (0)20 7471 9955



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### 08:00 - 09:20 Plenary including top abstracts Bayside Auditorium A

	<b>Chairs: E. Gratacós (Spain); A. Gagnon (Canada)</b>	
08:00	Functional MRI and challenges: bringing MRI to fetal and maternal imaging <i>E. Gratacós (Spain)</i>	
08:20	Discussion	
08:25	Endometrial injury performed in the non-transfer cycle and assisted reproduction outcomes: a randomised controlled trial <i>C. Nasti<sup>1</sup>; R. Ferriani<sup>1</sup>; N. Raine-Fenning<sup>2</sup>; W. Martins<sup>1</sup> (Brazil); <sup>2</sup>(United Kingdom)</i>	OC11.01
08:33	Discussion	
08:36	Three-dimensional ultrasound in diagnosis of congenital uterine anomalies comparing with magnetic resonance imaging <i>B. Graupera; M. Pascual; L. Hereter; B. Úbeda; C. Pedrero; M. Fernández-Cid (Spain)</i>	OC11.02
08:44	Discussion	
08:47	<sup>YI</sup> Fetal cardiovascular dysfunction is present in pregnancies conceived by assisted reproductive technologies <i>B. Valenzuela-Alcaraz; F. Crispi; B. Bijmens; M. Cruz Lemini; M. Creus; M. Sitges; S. Cívico; J. Balasch; E. Gratacós (Spain)</i>	OC11.03
08:55	Discussion	
08:58	<sup>YI</sup> Second trimester cervical length and spontaneous pre-term birth in twin pregnancies <i>F. D'Antonio; A. Khalil; A. Bhide; B. Thilaganathan (United Kingdom)</i>	OC11.04
09:06	Discussion	
09:09	In cases with fetal growth restriction, do the placental characteristics differ between singleton, DCDA twin and MCDA twin pregnancies? <i>S. Petersen; R. Cook; R. Lourie; J. Thomas; G. Gardener; R. Cincotta (Australia)</i>	OC11.05
09:17	Discussion	

### 09:25 - 10:05 Short oral presentation (OP) sessions

<b>OP07: Second trimester anomalies and aneuploidies</b>	<b>Bayside Auditorium A</b>
<i>Chairs: S. Eik-Nes (Norway); T.K. Lau (Hong Kong)</i>	
<b>OP08: Fetal growth and Doppler</b>	<b>Bayside 204</b>
<i>Chairs: A. Gagnon (Canada); A. Papageorghiou (United Kingdom)</i>	
<b>OP09: Characterising ovarian pathology</b>	<b>Bayside Gallery B</b>
<i>Chairs: M. Zikan (Czech Republic); A. Testa (Italy)</i>	
<b>OP10: Fetal interventions</b>	<b>Bayside 102</b>
<i>Chairs: K. Hecher (Germany); B. Thilaganathan (United Kingdom)</i>	
<b>OP11: Ultrasound assessment of pre-term and term labour</b>	<b>Bayside 103</b>
<i>Chairs: A. Ngu (Australia); A. Tabor (Denmark)</i>	

### 10:00 - 10:30 Coffee and e-poster viewing Bayside Grand Hall

<sup>YI</sup> This presentation is eligible for the Young Investigator award (to be presented at the closing session).

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### 10:30 - 11:50 Cardiac function in the assessment and prediction of disease *Bayside Auditorium A*

- Chairs: H. Gardiner (United States); J. Copel (United States)**  
LIVE SCAN: Doppler assessment of cardiac function [Supported by: Philips\*]  
*J. Copel (United States)*
- 10:30 Cardiac function in early onset small for gestational age and growth restricted fetuses OC12.01  
*W. Hassan<sup>1</sup>; J. Brockelsby<sup>1</sup>; M. Alberry<sup>1</sup>; T. Fanelli<sup>1</sup>; J. Wladimiroff<sup>1</sup>; C. Lees<sup>1,2</sup>*  
<sup>1</sup>(United Kingdom); <sup>2</sup>(Belgium)
- 10:55 Discussion
- 10:58 Fetal cardiovascular score for prediction of infant hypertension and arterial remodeling in intrauterine growth restricted infants OC12.02  
*M. Cruz Lemini; F. Crispi; B. Valenzuela-Alcaraz; F. Figueras; O. Gómez; M. Sitges; B. Bijmens; E. Gratacós (Spain)*
- 11:03 Discussion
- 11:06 Pre-ejection period alterations detected by tissue Doppler imaging in fetuses with right ventricular volume overload OC12.03  
*E. Sinkovskaya; A. Klassen; A. Abuhamad (United States)*
- 11:11 Discussion
- 11:14 Monitoring cholestasis of pregnancy using the fetal modified myocardial performance index (mod-MPI) OC12.04  
*A. Henry; A. Welsh (Australia)*
- 11:19 Discussion
- 11:22 Should elective deliveries be delayed in pregnancies complicated by major fetal cardiac anomalies? OC12.05  
*N. Dadlez; S. Brubaker; B. Yilmaz; L. Simpson; I. Williams (United States)*
- 11:27 Discussion
- 11:30 Pulmonary vasoreactivity to materno-fetal hyperoxygenation in fetuses with hypoplastic left heart OC12.06  
*C. Enzensberger; A. Tenzer; J. Degenhardt; T. Kohl; R. Axt-Fliedner (Germany)*
- 11:35 Discussion
- 11:38 Three-dimensional (3D) speckle tracking in fetal echocardiography: a new technology in assessment of fetal heart function OC12.07  
*C. Enzensberger; A. Tenzer; A. Doelle; J. Degenhardt; R. Axt-Fliedner (Germany)*
- 11:43 Discussion

### 10:30 - 11:50 Maternal fetal Doppler *Bayside 204*

- Chairs: K. Hecher (Germany); C. Brezinka (Austria)**  
LIVE SCAN: maternal cardiac function [Supported by: Samsung Medison\*]  
*K. Russo (Australia)*
- 10:30 Assessing quality standards in the measurement of maternal uterine artery Doppler parameters at 11-14 weeks gestation OC13.01  
*G. Ridding<sup>1</sup>; A. McLennan<sup>1</sup>; D. Sahota<sup>2</sup>*  
<sup>1</sup>(Australia); <sup>2</sup>(Hong Kong)
- 10:55 Discussion

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- 10:58 Doppler-based parameters of fetal pulmonary vascular resistance: baseline trends and response to maternal hyperoxia in the second and third trimesters OC13.02  
*Y. Yamamoto<sup>1,2</sup>; A. Hirose<sup>1</sup>; W. Savard<sup>1</sup>; V. Jain<sup>1</sup>; L. Hornberger<sup>1</sup>*  
<sup>1</sup>(Canada); <sup>2</sup>(Japan)
- 11:03 Discussion
- 11:06 Prenatal scale for cardiovascular risk in intrauterine growth restriction OC13.03  
*E. Cosmi; M. Rampon; S. Visentin; M. Bertin (Italy)*
- 11:11 Discussion
- 11:14 Prediction of intra-partum fetal compromise in normal pregnancies: a composite risk score OC13.04  
*T. Prior; E. Mullins; P. Bennett; S. Kumar (United Kingdom)*
- 11:19 Discussion
- 11:22 Antenatal ultrasound screening of placenta and umbilical cord for predicting non-fetal reassuring status during labour OC13.05  
*T. Arakaki; H. Ose; J. Hasegawa; M. Nakamura; K. Ichizuka; M. Mishina; A. Sekizawa (Japan)*
- 11:27 Discussion
- 11:30 Maternal carotid remodeling and arterial stiffness in normal late-gestational pregnancy as assessed by radio-frequency ultrasound technique OC13.06  
*L. Yuan; Y. Duan; D. Xue; T. Cao; N. Zhou (China)*
- 11:35 Discussion
- 11:38 Maternal cardiac function in women deemed high-risk for pre-eclampsia with subsequent normal and adverse outcomes OC13.07  
*K. Russo; R. Grivell; L. Simmons; J. Hyett (Australia)*
- 11:43 Discussion

### 10:30 - 11:50 Characterising ovarian pathology *Bayside Gallery B*

- Chairs: T. Bourne (United Kingdom); R. Benzie (Australia)**
- 10:30 What role does ultrasound play in my day-to-day clinical management of ovarian masses and selecting younger women for fertility sparing surgery OC13.08  
*R. Hogg (Australia)*
- 10:45 Early diagnosis in ovarian cancer: role of transvaginal color Doppler ultrasound. A fourteen year experience OC14.01  
*M. Pascual; B. Graupera; L. Hereter; F. Tresserra; M. Cusido; I. Rodríguez (Spain)*
- 10:50 Discussion
- 10:53 <sup>YI</sup> The additive value of HE4 novel tumor marker to the IOTA simple rules in the management of ovarian masses OC14.02  
*B. Erdodi; Z. Krasznai; E. Maka; L. Ördög; H. Balla; Z. Tóth; A. Jakab (Hungary)*
- 10:58 Discussion
- 11:01 Clinical and ultrasound characteristics of tubal cancer OC14.03  
*M. Ludovisi<sup>1</sup>; I. De Blasis<sup>1</sup>; B. Virgilio<sup>1</sup>; C. Giansiracusa<sup>1</sup>; D. Fischerova<sup>2</sup>; D. Franchi<sup>3</sup>; M. Pascual<sup>4</sup>; L. Savelli<sup>1</sup>; E. Epstein<sup>4</sup>; C. Van Holsbeke<sup>5</sup>; S. Guerriero<sup>6</sup>; A. Czekirowski<sup>6</sup>; D. Jurkovic<sup>7</sup>; A. Rossi<sup>1</sup>; D. Timmerman<sup>8</sup>; F. Mascilini<sup>1</sup>; L. Valentin<sup>4</sup>; A. Testa<sup>1</sup>*  
<sup>1</sup>(Italy); <sup>2</sup>(Czech Republic); <sup>3</sup>(Spain); <sup>4</sup>(Sweden); <sup>5</sup>(Belgium); <sup>6</sup>(Poland); <sup>7</sup>(United Kingdom)
- 11:06 Discussion

<sup>YI</sup> This presentation is eligible for the Young Investigator award (to be presented at the closing session).

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11:09	Ultrasound in female genital tuberculosis: a retrospective series <i>A. Khurana; G. Sahi (India)</i>	OC14.04
11:14	Discussion	
11:17	Clinical and ultrasound features of type I and type II epithelial ovarian cancer <i>J. Alcazar; J. Utrilla-Layna; J. Minguez; M. Jurado (Spain)</i>	OC14.05
11:22	Discussion	
11:25	The prevalence of ovarian lesions in asymptomatic post-menopausal women <i>L. Jokubkiene; P. Sladkevicius; L. Valentin (Sweden)</i>	OC14.06
11:30	Discussion	
11:33	The predictive value of subjective assessment, IOTA simple rules (SR), IOTA logistic regression model 1 (LR1), Alcazar's GI-RADS model and a risk of malignancy (RMI) model in the pre-operative discrimination of adnexal masses <i>A. Czekirowski; J. Koneczny; D. Borowski; J. Danilos; J. Kraczkowski (Poland)</i>	OC14.07
11:38	Discussion	
11:41	IOTA simple rules for discriminating between benign and malignant adnexal masses: a prospective external validation <i>J. Alcazar<sup>1</sup>; M. Pascual<sup>1</sup>; B. Olartecoechea<sup>1</sup>; M. Aubá<sup>1</sup>; B. Graupera<sup>1</sup>; L. Hereter<sup>1</sup>; S. Ajossa<sup>2</sup>; R. Julve<sup>1</sup>; F. Sedda<sup>2</sup>; L. Saba<sup>2</sup>; S. Guerriero<sup>2</sup> (Spain); (Italy)</i>	OC14.08
11:46	Discussion	

### 11:55 - 12:35 Short oral presentation (OP) sessions

#### OP12: Congenital heart disease

*Chairs: D. Paladini (Italy); M. Herrera (Colombia)*

**Bayside Auditorium A**

#### OP13: Assessment in late pregnancy and labour

*Chairs: K. Kalache (Germany); K. Stone (Australia)*

**Bayside 204**

#### OP14: Ultrasound in oncology

*Chairs: R. Hogg (Australia); A. Khurana (India)*

**Bayside Gallery B**

#### OP15: Imaging technologies

*Chairs: D. Prayer (Austria); K. Leung (China)*

**Bayside 102**

#### OP16: Pelvic pain and endometriosis

*Chairs: B. Benacerraf (United States); S. Piessens (Australia)*

**Bayside 103**

### 12:15 - 13:45 Lunch and e-poster viewing

**Bayside Grand Hall**

### 12:40 - 13:40 Toshiba Medical Systems satellite symposium\*\*

**Bayside Auditorium A**

### 13:45 - 15:05 CHD: from first trimester to post-mortem imaging **Bayside Auditorium A**

*Chairs: J. Carvalho (United Kingdom); R. Chaoui (Germany)*

13:45 LIVE SCAN: focusing on the left heart [Supported by: Samsung Medison\*]  
*J. Carvalho (United Kingdom)*

14:05 Discussion

\* Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.

\*\* Lunchtime satellite symposia are brought to you by our sponsors and are not part of the ISUOG CPD program. ISUOG takes no responsibility for scientific or clinical content.

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14:10	The "diastolic tail" detected on B-flow derived imaging is a sensitive indicator of aortic coarctation in fetuses referred for ventricular disproportion: a pilot study <i>D. Paladini; G. Pastore; A. Cavallaro; C. Nappi (Italy)</i>	OC15.01
14:15	Discussion	
14:18	Outcome of patients with hypoplastic left heart (HLH) and aortic stenosis (AS) with prenatally diagnosed ventriculocoronary arterial fistula (VAF) and endocardial fibroelastosis (EFE) <i>C. Enzensberger; A. Tenzer; J. Degenhardt; T. Kohl; C. Deisting; E. Widriani; D. Schranz; M. Vogel; R. Axt-Flidner (Germany)</i>	OC15.02
14:23	Discussion	
14:26	Management of fetal right aortic arch without associated intracardiac abnormalities: cohort study and meta analysis <i>F. D'Antonio; A. Khalil; J. Carvalho (United Kingdom)</i>	OC15.03
14:31	Discussion	
14:34	First trimester diagnosis of CHD in high-risk patients using standardised STIC, TUI and colour Doppler imaging echocardiography <i>S. Turan; O. Turan; A. Desai; C. Harman; A. Baschat (United States)</i>	OC15.04
14:39	Discussion	
14:42	The role of simple protocol based on 4CV and 3VTV in color mapping at the time of nuchal scan in diagnosing congenital cardiac defects <i>M. Wiechec; A. Nocun (Poland)</i>	OC15.05
14:47	Discussion	
14:50	Fetal heart pathology on postmortem 3-Tesla magnetic resonance imaging <i>I. Sandaite<sup>1,2</sup>; S. Dymarkowski<sup>1</sup>; L. De Cotte<sup>1</sup>; P. Moerman<sup>1</sup>; M. Gewillig<sup>1</sup>; L. Fedele<sup>2</sup>; J. Deprest<sup>1</sup>; F. Claus<sup>1</sup> (Belgium); (Italy)</i>	OC15.06
14:55	Discussion	

### 13:45 - 15:05 Congenital infections

**Bayside 204**

*Chairs: Y. Ville (France); J. Smolencic (Australia)*

13:45 CMV: beyond images

*Y. Ville (France)*

14:05 LIVE SCAN: congenital infection ultrasound work up [Supported by: Toshiba\*]

*C. Bilardo (Netherlands)*

14:25 Congenital cytomegalovirus infection: prenatal disease assessment OC16.01

*L. Levitt; H. Amsalem; D. Valsky; N. Yanai; D. Hochner-Celnikier; D. Wolf; S. Yagel (Israel)*

14:30 Discussion

14:33 Fetal white matter abnormalities in cytomegalovirus infection OC16.02

*D. Pugash; G. Henderson; C. Dunham; D. Money (Canada)*

14:38 Discussion

14:41 Prenatal MRI hypersignal intensity of the white matter in T2 weight sequences in cytomegalovirus infection: myth or reality OC16.03

*B. Deloison; L. Salomon; P. Sonigo; M. Nicloux; A. Millischer; J. Magny; F. Brunelle; Y. Ville (France)*

14:46 Discussion

14:49 Management and long term outcomes of parvovirus infection

*J. Smolencic (Australia)*

## Program - Tuesday 8 October 2013

### 13:45 - 15:05 **Ultrasound in oncology** *Bayside Gallery B*

**Chairs:** *A. Dobrotwir (Australia); A. Testa (Italy)*

- 13:45 The role of Tru-cut biopsies in the management of oncology patients  
*M. Zikan (Czech Republic)*
- 14:00 Can ultrasound predict deep stromal invasion and lymph node involvement in patients with early stage cervical cancer? A prospective multicenter study on 2D and 3D ultrasound  
*K. Palsdottir<sup>1</sup>; D. Fischerova<sup>2</sup>; D. Franchi<sup>3</sup>; A. Di Legge<sup>3</sup>; A. Testa<sup>3</sup>; E. Epstein<sup>1</sup>*  
<sup>1</sup>(Sweden); <sup>2</sup>(Czech Republic); <sup>3</sup>(Italy)
- 14:05 Discussion
- 14:08 The use of contrast enhanced ultrasound in evaluation the effect of chemotherapy in cervical carcinoma  
*X. Zhang; R. Zheng; X. He; Y. Mao; Z. Huang; J. Xu (China)*
- 14:13 Discussion
- 14:16 An ultrasound algorithm for the identification of endometrial cancer  
*M. Dueholm; C. Møller; S. Rydbjerg; E. Hansen; G. Ørtoft (Denmark)*
- 14:21 Discussion
- 14:24 The additive value of endometrial aspiration (EA) at the time of saline-infusion sonohysterography (SIS) for the evaluation of endometrial pathology in post-menopausal women  
*O. Rotenberg; J. Gebb; P. Dar (United States)*
- 14:29 Discussion
- 14:32 Ultrasound accuracy in prediction of pelvic carcinomatosis in advanced ovarian cancer patients  
*M. Zikan; D. Fischerova; I. Pinkavova; F. Frühauf; D. Cibula (Czech Republic)*
- 14:37 Discussion
- 14:40 Comparison of measurements of the uterus and cervix obtained by MRI and ultrasound imaging used for planning radiotherapy for cervix cancer  
*S. van Dyk; S. Kondalsamy-Chennakesavan; K. Narayan; M. Schneider (Australia)*
- 14:45 Discussion
- 14:48 Application research of real time sono-elasticity imaging in cervical cancer  
*J. Geng; J. Tang (China)*
- 14:53 Discussion
- 14:56 Endometrial cancer diagnosis: pattern evaluation at transvaginal ultrasound and gel infusion sonography versus endometrial sample, hysteroscopy and MRI  
*M. Dueholm; E. Marinovskij; C. Møller; S. Rydbjerg; E. Hansen; G. Ørtoft (Denmark)*
- 15:01 Discussion

### 15:05 - 15:30 **Coffee and e-poster viewing** *Bayside Grand Hall*

### 15:30 - 16:50 **Workshop: Intrapartum ultrasound** *Bayside Auditorium A*

**Chairs:** *K. Kalache (Germany); K. Salvesen (Norway)*

- 15:30 Overview of potential indications and contribution to improved management  
*D. Ellwood (Australia)*

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- 15:50 Assessment of fetal head position and station at full dilation: case presentations  
*K. Kalache (Germany)*
- 16:10 Ultrasound pre-instrumental delivery  
*K. Salvesen (Norway)*
- 16:30 Discussion

### 15:30 - 16:50 **Workshop: Oncology** *Bayside 204*

**Chairs:** *E. Epstein (Sweden); J. Carter (Australia)*

- 15:30 MRI and ultrasonography to delineate early cervical cancer  
*E. Epstein (Sweden)*
- 15:50 LIVE SCAN: Staging gynecological malignancy and predicting optimal cytoreduction [Supported by: GE Healthcare\*]  
*A. Testa (Italy)*
- 16:10 How to recognise the extent of endometrial cancer: gray scale and colour Doppler findings in endometrial cancer in relation to grade, stage and tumor size  
*E. Epstein (Sweden)*
- 16:30 Diagnosing primary and recurrent borderline tumors  
*A. Testa (Italy)*

### 15:30 - 16:50 **Workshop: 3D** *Bayside Gallery B*

**Chairs:** *L. Platt (United States); B. Benacerraf (United States)*

- 15:30 Introduction  
*L. Platt (United States)*
- 15:35 The value of 3D in the patient presenting with pelvic pain  
*B. Benacerraf (United States)*
- 15:55 Updates in 3D/ 4D assessment of the fetal heart  
*W. Lee (United States)*
- 16:15 Techniques to improve your 3D / 4D imaging in obstetrics  
*B. Benoit (France)*
- 16:35 Discussion

### 15:30 - 16:50 **Workshop: Ultrasound in rural settings: ISUOG Outreach** *Bayside 102*

**Chairs:** *A. Abuhamad (United States); G. Yeo (Singapore)*

- 15:30 Welcome  
*A. Abuhamad (United States)*
- 15:35 The prevalence of prenatal conditions detected by ultrasound in a rural clinic in Uganda  
*K. DeStigter<sup>2</sup>; S. Souza<sup>2</sup>; M. Rielly<sup>1</sup>; M. Nelson<sup>2</sup>; G. Morey<sup>2</sup>; E. Sifen<sup>2</sup>; M. Kawooya<sup>3</sup>; A. Matovu<sup>3</sup>; B. Garra<sup>2</sup>*  
<sup>1</sup>(India); <sup>2</sup>(United States); <sup>3</sup>(Uganda)
- 15:40 ISUOG discussant: needs assessment  
*A. Abuhamad (United States)*
- 15:45 Discussion

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15:50	A comparative evaluation of a simplified, low-cost ultrasound protocol with standard obstetrical ultrasonography in the recognition of common prenatal diagnoses <i>G. Morey<sup>2</sup>; K. DeStigter<sup>2</sup>; P. Kim<sup>2</sup>; M. Rielly<sup>1</sup>; S. Souza<sup>2</sup>; F. Miele<sup>2</sup>; M. Nelson<sup>2</sup>; E. Silfen<sup>2</sup>; M. Kawooya<sup>3</sup>; B. Garra<sup>2</sup></i> <sup>1</sup> (India); <sup>2</sup> (United States); <sup>3</sup> (Uganda)	OC23.03
15:55	ISUOG discussant: equipment and diagnostic need <i>S. Eik-Nes (Norway)</i>	
16:00	Discussion	
16:05	To what extent does ultrasound estimation of gestational age affect the rate of pre-term births in a rural population in sub-Saharan Africa (sSA)? <i>B. Kemp<sup>1,2</sup>; A. Koech<sup>2</sup>; H. Mwangudzah<sup>2</sup>; A. Seale<sup>2,1</sup>; S. Kennedy<sup>1</sup>; J. Berkley<sup>2,1</sup>; A. Papageorghiu<sup>1</sup></i> <sup>1</sup> (United Kingdom); <sup>2</sup> (Kenya)	OC23.02
16:10	ISUOG discussant: monitoring and evaluation <i>D. Paladini (Italy)</i>	
16:15	Discussion	
16:20	Antenatal ultrasound in rural Kenya: the perceptions and expectations of pregnant women <i>D. Oluoch<sup>2</sup>; B. Kemp<sup>1,2</sup>; N. Mwangome<sup>2</sup>; A. Papageorghiu<sup>1</sup>; S. Kennedy<sup>1</sup>; J. Berkley<sup>2,1</sup>; C. Jones<sup>2,1</sup></i> <sup>1</sup> (United Kingdom); <sup>2</sup> (Kenya)	OC23.04
16:25	Australian Outreach: opportunities and challenges for Outreach in a developed country <i>N. Parange (Australia)</i>	
16:35	Closing discussion	

15:30 - 16:50 Workshop: Menopause and screening **Bayside 103**

	<b>Chairs: S. Campbell (United Kingdom); F. Scott (Australia)</b>	
15:30	The current evidence base relating to ovarian and endometrial cancer screening <i>S. Campbell (United Kingdom)</i>	
15:50	Simple cysts in post-menopausal women: prevalence, risk of malignancy and management <i>L. Jokubkiene (Sweden)</i>	
16:10	Investigating women with post-menopausal bleeding and the management of asymptomatic polyps <i>V. Lanzarone (Australia)</i>	
16:30	Mammographic screening: early detection or over diagnosis <i>R. Baber (Australia)</i>	

## 16:55 - 17:35 'Meet the professor' sessions

	The Sherlock Holmes approach to syndromes involving the face <i>B. Benacerraf (United States)</i>	<b>Bayside 204</b>
	Update in the management of IUGR <i>E. Gratacós (Spain)</i>	<b>Bayside Gallery B</b>
	Early fetal echocardiography <i>J. Carvalho (United Kingdom)</i>	<b>Bayside 102</b>
	How to characterise uterine anomalies in practice <i>N. Raine-Fenning (United Kingdom)</i>	<b>Bayside 103</b>

## OP - Tuesday 8 October 2013

<b>OP07: Second trimester anomalies and aneuploidies</b>	<b>Bayside Auditorium A</b>
<b>Chairs: S. Eik-Nes (Norway); T.K. Lau (Hong Kong)</b>	
A comparison of three-dimensional volume sonography to two-dimensional second trimester anatomic surveys in a Canadian healthcare context <i>M. Roy-Lacroix (Canada)</i>	OP07.01
Contribution of color Doppler in diagnosis of fetal malformations <i>N. Vecsek (Croatia)</i>	OP07.02
Identifying craniofacial anomalies: a two-line approach <i>J. Weichert (Germany)</i>	OP07.03
The transverse septum lingual view on 2D ultrasound for the detection of cleft palate <i>M. Alberry (United Kingdom)</i>	OP07.04
Normal traced thorax area: transversal study from Latin America <i>M. Yamamoto (Chile)</i>	OP07.05
A rare case of left sided congenital diaphragmatic hernia and bilateral congenital cystic adenomatoid malformation (CCAM)/pulmonary sequestration <i>E. Inglis (Australia)</i>	OP07.06
Subdiaphragmatic echogenic masses: prenatal diagnosis and outcome <i>J. Ochoa (Argentina)</i>	OP07.07
Case of velamental vessels in an amniotic band: a "not to touch case" <i>M. Yamamoto (Chile)</i>	OP07.08
<b>OP08: Fetal growth and Doppler</b>	<b>Bayside 204</b>
<b>Chairs: A. Gagnon (Canada); A. Papageorghiu (United Kingdom)</b>	
Comparison of centile charts: does ethnicity and methodology matter? <i>S. McArthur (Australia)</i>	OP08.01
Screening for SGA fetuses: one-year audit in high-risk pregnancy department. How good or bad are we? <i>J. Nizard (France)</i>	OP08.02
Reduced fetal movements at term: association to second trimester uterine artery Doppler assessment <i>G. Pagani (United Kingdom)</i>	OP08.03
Uterine artery Doppler in predicting pregnancy outcome in women with chronic hypertension <i>G. Rencoret (Chile)</i>	OP08.04
Brachial artery flow-mediated dilatation as a predictor of pre-eclampsia in the second trimester of pregnancy <i>F. Costa (Australia)</i>	OP08.05
The effects of S-nitrosoglutathione on maternal and fetal Doppler in early-onset pre-eclampsia <i>T. Everett (United Kingdom)</i>	OP08.06
A comparison of fetal Doppler indices between primiparous and multiparous women <i>T. Prior (United Kingdom)</i>	OP08.07
Measurement of fetal arterial pulse wave velocity: approach to prenatal cardiovascular properties applying ultrasonic phased tracking method <i>S. Miyashita (Japan)</i>	OP08.08
The challenge to measure the fetal thymus and the adrenal gland-learning curve and reproducibility in the PRINCE prospective birth cohort <i>A. Diemer (Germany)</i>	OP08.09
Comprehensive ultrasound evaluation of short-term fetal effects of dexamethasone and betamethasone <i>A. Henry (Australia)</i>	OP08.10
Fetal growth and growth velocity in gastroschisis <i>R. Rana (United Kingdom)</i>	OP08.11
Towards a better understanding of the developmental origins of disease <i>R. Nanan (Australia)</i>	OP08.12



## OP - Tuesday 8 October 2013

**OP09: Characterising ovarian pathology****Bayside Gallery B****Chairs: M. Zikan (Czech Republic); A. Testa (Italy)**

- Decidualization of endometrioma during pregnancy mimicking a malignant ovarian tumor  
*B. Graupera (Spain)* OP09.01
- Reproducibility of simple rules for assessing adnexal masses in real-time US examination  
*J. Alcazar (Spain)* OP09.02
- Ultrasound characteristics of ovarian cystadenofibromas  
*F. Mascilini (Italy)* OP09.03
- Fetal ovarian cysts  
*L. Laursen (Denmark)* OP09.04
- A prospective study on the diagnostic accuracy of color Doppler ultrasonography in the differentiation of benign and malignant ovarian neoplasms  
*K. Reforma (Philippines)* OP09.05
- Predicting malignancy in entirely solid-appearing adnexal masses on gray-scale ultrasound based on additional ultrasound findings, clinical complaints and biochemical parameters: a retrospective study  
*J. Alcazar (Spain)* OP09.06
- Ultrasound guided drainage of tubo-ovarian abscess: high cure rates and no complications  
*M. Yamamoto (Chile)* OP09.07

**OP10: Fetal interventions****Bayside 102****Chairs: K. Hecher (Germany); B. Thilaganathan (United Kingdom)**

- Fetal pulmonary valvuloplasty by percutaneous transhepatic access in a lamb model  
*A. Edwards (Australia)* OP10.01
- Sealing of iatrogenic fetal membrane defects after fetoscopic surgery for congenital diaphragmatic hernia by collagen plugs  
*J. Deprest (Belgium)* OP10.02
- Added value of website based parent information about intrauterine treatment for severe congenital diaphragmatic hernia  
*J. Deprest (Belgium)* OP10.03
- Trends in outcomes of monochorionic diamniotic twins after fetal surgery in Japan, 2001-2010  
*H. Sago (Japan)* OP10.04
- Impact of the gestational age at the TTTS diagnosis and laser treatment on the pregnancy outcome: a modified Quintero staging  
*K. Preis (Poland)* OP10.05
- Monitoring of fetal heart rate during intrauterine meningocele repairs: preliminary results from a single reference service in Brazil  
*F. Barros (Brazil)* OP10.06
- Fetomaternal hemorrhage in invasive prenatal diagnostic procedures: chorionic villus sampling, amniocentesis  
*M. Lubusky (Czech Republic)* OP10.07
- Effect of cervical cerclage on labour course and obstetric outcome  
*J. Shin (Republic of Korea)* OP10.08

## OP - Tuesday 8 October 2013

**OP11: Ultrasound assessment of pre-term and term labour****Bayside 103****Chairs: A. Ngu (Australia); A. Tabor (Denmark)**

- Does the presence of obvious cervical mucous affect the determination of the internal os and the cervical length measurement?  
*J. Thomas (Australia)* OP11.01
- 3D evaluation of the cervix during pregnancy: the relationship between cervical volume and pre-term delivery  
*T. Shipp (United States)* OP11.02
- Intra-amniotic sludge observed at cervical ultrasound and the risk of pre-term delivery  
*F. Audibert (Canada)* OP11.03
- Non-invasive prediction of intra-amniotic infection and/or inflammation in patients with cervical insufficiency or an asymptomatic short cervix ( $\leq 15$  mm)  
*E. Jung (Republic of Korea)* OP11.04
- Induction of labour in pre-term pregnancies compared with term pregnancies  
*B. Han (Republic of Korea)* OP11.05
- Sonographic funneling of uterine cervix as predictor for success of labour induction  
*E. Kim (Republic of Korea)* OP11.06
- Pre and post-ripening sonographic assessment of cervix for predicting successful induction of labour  
*M. Cordoba (United States)* OP11.07
- Relationship between ultrasound and Dopplerometry in labour and fetal hypoxia  
*O. Eremina (Russian Federation)* OP11.08

**OP12: Congenital heart disease****Bayside Auditorium A****Chairs: D. Paladini (Italy); M. Herrera (Colombia)**

- Abstract withdrawn OP12.01
- The detection rate of cardiac anomalies at 11 - 13+6 weeks scan using four chamber  
*M. Batra (India)* OP12.02
- Early evaluation of fetal heart anatomy: a prospective study from 6 to 10 weeks' gestation  
*C. Votino (Belgium)* OP12.03
- Fetal heart anomalies detected during first trimester screening test in a mixed population  
*H. Yazicioglu (Turkey)* OP12.04
- The analysis of fetal echocardiographic reference value and study on relationship of these measurements with gestational age (I)  
*Y. He (China)* OP12.05
- Antenatal accuracy of fetal echocardiography in the diagnosis of fetal coarctation of aorta  
*E. Kim (Republic of Korea)* OP12.06
- Abstract withdrawn OP12.07
- HDlive rendering images of the fetal heart  
*N. Mori (Japan)* OP12.08
- Assessing hospital and lesion-specific screening performance for major congenital heart disease  
*H. Gardiner (United Kingdom)* OP12.09
- Fetal heart disease: impact of prenatal counseling by paediatric cardiologists on the pregnancy outcomes  
*K. Leung (Hong Kong)* OP12.10
- Reduced fetal cardiac function in obese pregnant women  
*A. Brantberg (Norway)* OP12.11

## OP - Tuesday 8 October 2013

**OP13: Assessment in late pregnancy and labour****Bayside 204****Chairs: K. Kalache (Germany); K. Stone (Australia)**

- Cerebral blood flow redistribution in fetuses with congenital heart disease  
*F. D'Antonio (United Kingdom)* OP13.01
- Does maternal psychological status affect placental-fetal blood flow circulation during pregnancy: a pilot study  
*J. Fu (China)* OP13.02
- Cerebral arteries Doppler indices in mild chronic hypertensive pregnant women  
*R. Sa (Brazil)* OP13.03
- The effect of antenatal dietary and lifestyle advice on fetal growth in women who are overweight or obese: findings from the LIMIT randomised trial  
*R. Grivell (Australia)* OP13.04
- Reduced fetal movements at term: association to first trimester PAPP-A level  
*G. Pagani (United Kingdom)* OP13.05
- Fetal ultrasound examinations in women affected by late gestational hypertension and third trimester ultrasound growth scan values to predict the onset of late gestational hypertension  
*E. Cosmi (Italy)* OP13.06
- How useful is ultrasonography in predicting fetal outcome in pregnant women who perceived decreased fetal movement in low risk population after 28 weeks of pregnancy: systematic review  
*O. Olowu (United Kingdom)* OP13.07
- Histological chorioamnionitis in the Northern Territory is associated with rural and remote residence rather than ethnicity  
*C. OBrien (Australia)* OP13.08
- Cardiovascular indices in the early identification of pre-eclampsia in women presenting with gestational hypertension  
*A. Khalil (United Kingdom)* OP13.09
- Prediction of fetal compromise using ultrasound in low-risk postdates pregnancies  
*A. Khalil (United Kingdom)* OP13.10

**OP14: Ultrasound in oncology****Bayside Gallery B****Chairs: R. Hogg (Australia); A. Khurana (India)**

- The value of contrast-enhanced ultrasound for differential diagnosis of subserous myoma and ovarian fibroma  
*X. Zhang (China)* OP14.01
- Saline-infusion sonography compared with saline-infusion sonography endometrial sampling in diagnosing endometrial pathology  
*D. Twickler (United States)* OP14.02
- Prevalence of lymphocysts after pelvic and paraaortic lymphadenectomy and treatment with miniinvasive ultrasound-guided drainage  
*M. Zikan (Czech Republic)* OP14.03
- 3- and 2 dimensional transvaginal ultrasound with power Doppler and gel infusion for diagnosis of malignancy in women with postmenopausal bleeding  
*M. Dueholm (Denmark)* OP14.04
- Prediction of benign and malignant endometrial changes with the use of IETA group descriptors  
*A. Czekierdowski (Poland)* OP14.05

## OP - Tuesday 8 October 2013

- Temporal validation of five mathematical models for calculating the risk of endometrial malignancy in women with postmenopausal bleeding and sonographic endometrial thickness >4.5 mm  
*P. Sladkevicius (Sweden)* OP14.06
- Transvaginal ultrasound assessment of myometrial and cervical stroma invasion in endometrial cancer: can any gynecologist do the job?  
*L. Jäger (Sweden)* OP14.07
- Diagnostic performance of transvaginal sonography for the assessment of myometrial invasion in cases of endometrial cancer  
*A. Gaurilcikas (Lithuania)* OP14.08
- Gray-scale and color Doppler ultrasonic characteristics of endometrial cancer in relation to stage  
*S. Lunde (Denmark)* OP14.09

**OP15: Imaging technologies****Bayside 102****Chairs: D. Prayer (Austria); K. Leung (China)**

- Evaluation of the additional value of fetal MRI in fetal anomalies diagnosed by ultrasound and postnatal correlation of the findings  
*B. Verburg (Australia)* OP15.01
- Automatic fetal head detection on video clips from a low-cost portable USB ultrasound (US) device  
*A. Papageorghiou (United Kingdom)* OP15.02
- Tele-ultrasound in obstetrics and gynecology: implementation, image quality analysis and clinical application of a low-cost and easy-to-use platform  
*E. Costa (Australia)* OP15.03
- Inotropy index and ratio of potential to kinetic energy: two novel parameters derived from continuous-wave Doppler ultrasound  
*A. Khalil (United Kingdom)* OP15.04
- New quantitative analysis of uteroplacental perfusion using Doppler and contrast-enhanced ultrasound imaging  
*E. Perrotin (France)* OP15.05
- Influence of attenuation upon three-dimensional power Doppler indices and STIC volumetric pulsatility index: a flow-phantom experiment  
*W. Martins (Brazil)* OP15.06
- Influence of pulse repetition frequency adjustment on three-dimensional power Doppler indices and STIC volumetric pulsatility index using an in vivo model  
*W. Martins (Brazil)* OP15.07
- Quantification of cervix's elastography in assessing the risk of pre-term delivery  
*L. Sabiani (France)* OP15.08
- Ultrasound and signs of invasive placenta: systematic review and meta analysis  
*F. D'Antonio (United Kingdom)* OP15.09 & OP15.10

## OP - Tuesday 8 October 2013

## OP16: Pelvic pain and endometriosis

Bayside 103

Chairs: **B. Benacerraf (United States); S. Piessens (Australia)**

- The use of the soft marker, site-specific tenderness at TVS, in the pre-operative mapping of peritoneal endometriosis  
*S. Reid (Australia)* OP16.01
- MRI and ultrasound fusion imaging for diagnosing deep infiltrating endometriosis  
*A. Millischer (France)* OP16.02
- Extended transvaginal ultrasound in deep endometriosis: use of bowel preparation and acoustic window with intravaginal gel  
*M. León (Chile)* OP16.03
- Ultrasound diagnosis of anomalies of uterine cervix and uterus for cervical reconstruction  
*D. Deka (India)* OP16.04
- Diagnostic accuracy of presence of kissing ovaries at transvaginal ultrasonography as a soft markers of posterior severe deep endometriosis  
*S. Guerriero (Italy)* OP16.05
- Is there a relationship between the position of the uterus and the presence of deep infiltrating endometriosis?  
*S. Reid (Australia)* OP16.06
- Same day ultrasound imaging and laparoscopic surgery for the diagnosis of deep infiltrating endometriosis  
*J. Ludlow (Australia)* OP16.07
- Endometrial hyperplasia: ultrasonographic features using IETA (International Endometrial Tumor Analysis) terms  
*B. Graupera (Spain)* OP16.08



## Program - Wednesday 9 October 2013

- MTP** 08:00 - 08:40  
'Meet the professor' sessions
- Parallel sessions** 08:45 - 10:05  
Aneuploidy and second trimester fetal anomalies II *Bayside Auditorium A*  
Urogynecology *Bayside 204*  
Making obstetrics safer through ultrasound *Bayside Gallery B*
- Parallel sessions** 10:30 - 11:50  
First trimester screening *Bayside Auditorium A*  
Urogynecology I (workshop) *Bayside 204*  
Multiple pregnancy *Bayside Gallery B*
- Short oral presentations** 11:55 - 12:35  
Aneuploidy: first trimester *Bayside Auditorium A*  
Urogynecology *Bayside 204*  
First trimester assessment of growth and Doppler *Bayside Gallery B*  
Technology to improve training and safety *Bayside 102*  
Multiple pregnancy *Bayside 103*
- Sponsor** 12:45 - 13:45  
Samsung Medison satellite symposium *Bayside Auditorium A*
- Workshops** 14:00 - 15:20  
Routine ultrasound: how many, when and what for *Bayside Auditorium A*  
Urogynecology II *Bayside 204*  
Pre-term labour *Bayside Gallery B*  
Screening with diagnosis of chromosomal abnormalities: present and future *Bayside 102*  
Fetal therapy *Bayside 103*
- Plenary** 15:50 - 17:30  
Panel discussion: ultrasound and MRI combined approach *Bayside Auditorium A*  
Closing session and awards *Bayside Auditorium A*
- Social** 17:30 - 18:15  
Congress leaving drinks *Bayside Foyer*

# 10<sup>th</sup> ISUOG International Symposium

## Beijing, China

26 - 28 April 2014



## Ultrasonography in Obstetrics and Gynecology: from basic to advanced

'Join us for a rich and exciting program in the metropolitan city of Beijing!'

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*Qing Dai*

Co-Chairman:  
Prof. Qing DAI (Beijing)

### Critical dates

<b>October 2013</b>	Call for papers Registration opens
<b>31 December 2013</b>	Abstract submission deadline Exhibition and sponsorship deadline
<b>26 February 2014</b>	Early bird registration deadline

### Program - Wednesday 9 October 2013

<b>08:00 - 08:40 'Meet the professor' sessions</b>	
Imaging of pelvic floor trauma <i>H.P. Dietz (Australia)</i>	<b>Bayside 204</b>
Screening & management of specific monochorionic twin complications <i>Y. Ville (France)</i>	<b>Bayside Gallery B</b>
Metastatic ovarian tumors (secondary tumors of the ovary) <i>A. Testa (Italy)</i>	<b>Bayside 102</b>
Optimising your 3D scan <i>L. Platt (United States)</i>	<b>Bayside 103</b>
<b>08:45 - 10:05 Aneuploidy and second trimester fetal anomalies II Bayside Auditorium A</b>	
<b>Chairs: D. Pugash (Canada); S. Meagher (Australia)</b>	
08:45 LIVE SCAN [Supported by: Siemens*] <i>A. Papageorghiou (United Kingdom)</i>	
09:05 Abnormal images <i>B. Benacerraf (United States)</i>	
09:20 Discussion	
09:25 The prenatal thickness to nasal bone length ratio: 2D versus 3D ultrasound <i>E. de Jong<sup>1</sup>; F. Vos<sup>1</sup>; K. Kagan<sup>2</sup>; L. Ribbert<sup>1</sup>; E. Tromp<sup>1</sup>; C. Bilardo<sup>1</sup> (Netherlands); <sup>2</sup>(Germany)</i>	<b>OC18.01</b>
09:30 Discussion	
09:33 N-terminal pro-B-type natriuretic peptide and cardiac troponin T in non-immune hydrops <i>S. Lee; J. Jun; M. Kang; S. Kim; B. Kim; J. Lee; C. Park; J. Park (Republic of Korea)</i>	<b>OC18.02</b>
09:38 Discussion	
09:41 Differentiating fetal hydrops: sonographic landmarks <i>D. Hartge; A. Schröer; J. Weichert (Germany)</i>	<b>OC18.03</b>
09:46 Discussion	
09:49 Prenatal ultrasound and magnetic resonance imaging findings in fetuses with heart defect associated with congenital diaphragmatic hernia <i>P. Javadian; A. Shamshirsaz; D. Cass; I. Zamora; T. Lee; C. Cassidy; N. A. Ayres; A. Mehollin-Ray; C. Fernandes; S. Welty; J. A. Kalin; S. A. Maskati; O. Olutoye; M. Belfort; R. Ruano (United States)</i>	<b>OC18.04</b>
09:54 Discussion	
09:57 Mode of delivery and neonatal outcome of infants with isolated gastroschisis <i>R. Vlk; M. Komar; M. Rygl; P. Hanulíková; I. Spalova; M. Černý (Czech Republic)</i>	<b>OC18.05</b>
10:02 Discussion	

\*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.

## Program - Wednesday 9 October 2013

### 08:45 - 10:05 Urogynecology *Bayside 204*

**Chairs: S. Yagel (Israel); A. Korda (Australia)**

08:45	Relevance of pelvic floor ultrasound for planning urogynecologic surgery <i>A. Korda (Australia)</i>	
09:00	Graft related complications in urogynecology <i>J. Deprest (Belgium)</i>	
09:15	Recurrence after prolapse surgery: does partial avulsion matter? <i>A. Pilzek<sup>2</sup>; C. Shek<sup>1</sup>; R. Guzman Rojas<sup>1</sup>; I. Kamisan Atan<sup>1</sup>; H.P. Dietz<sup>1</sup> (Australia); <sup>2</sup>(United States)</i>	OC19.01
09:20	Discussion	
09:23	Residual sphincter defects and symptoms in women examined within one year from a delivery with OASIS <i>V. Eisenberg; M. Alcalay; G. Bitman; R. Achiron; E. Schiff (Israel)</i>	OC19.02
09:28	Discussion	
09:31	Imaging of the urethral diverticulum with 4D transperineal ultrasound <i>V. Eisenberg; M. Alcalay; G. Bitman; R. Achiron; E. Schiff (Israel)</i>	OC19.03
09:36	Discussion	
09:39	Bladder support after laparoscopic sacrocolpopexy: where is the mesh? <i>V. Wong; R. Guzman Rojas; C. Shek; D. Chou; K. Moore; H.P. Dietz (Australia)</i>	OC19.04
09:44	Discussion	
09:47	Levator ani muscle injury after instrumental delivery in Chinese primiparous women <i>S. Chan; M. Chung; O. Wan; R. Cheung (Hong Kong)</i>	OC19.05
09:52	Discussion	
09:55	<sup>YI</sup> The latency between pelvic floor trauma and presentation for prolapse surgery <i>V. Thomas; C. Shek; R. Guzman Rojas; H. Dietz (Australia)</i>	OC19.06
10:00	Discussion	

### 08:45 - 10:05 Making obstetrics safer through ultrasound *Bayside Gallery B*

**Chairs: K. Salvesen (Norway); K. Maršál (Sweden)**

08:45	Uterine scar in the first trimester	
09:00	Who should perform obstetrics ultrasound in the primary health care centers? A need to be consequent with our reality <i>F. Guerra; P. Moore; E. Acuña; J. Mansilla (Chile)</i>	OC20.01
09:05	Discussion	
09:08	Is the objective structured assessment of ultrasound skills (OSAUS) a reliable and valid tool to assess ultrasound skills? <i>M. Tolsgaard<sup>1</sup>; E. Dreisler<sup>1</sup>; A. Klemmensen<sup>1</sup>; A. Loft<sup>1</sup>; J. Sorensen<sup>1</sup>; C. Ringsted<sup>2</sup>; B. Ottesen<sup>1</sup>; A. Tabor<sup>1</sup> (Denmark); <sup>2</sup>(Canada)</i>	OC20.02
09:13	Discussion	
09:16	Comparison of the sonographic healing of the Cesarean scar following a single or double-layer suture: a randomised trial <i>A. Guyot; J. Stirnemann; P. Capmas; L. Buissières; M. Scozzafava; H. Fernandez; Y. Ville (France)</i>	OC20.03
09:21	Discussion	

## Program - Wednesday 9 October 2013

09:24	Ultrasonographic and clinical factors for the prediction of peripartum complications in pregnancies complicated by placenta previa <i>S. Oh; S. Yoon; J. An; H. Cha; S. Oh; J. Kim; C. Roh (Republic of Korea)</i>	OC20.04
09:29	Discussion	
09:32	Survey of microbial contamination of ultrasound probe handles following high-level disinfection with ortho-phthalaldehyde <i>G. McNally; A. Ngu (Australia)</i>	OC20.05
09:37	Discussion	
09:40	Usefulness of uterine artery Doppler velocimetry in diagnosing placenta accreta in placenta previa patients <i>H. Cho; H. Hwang; J. Kwon; Y. Park; Y. Kim (Republic of Korea)</i>	OC20.06
09:45	Discussion	
09:48	Lower uterine segment in the first trimester of pregnancy: a quality based approach <i>L. Salomon; O. Castaing; M. Kuleva; J. Bernard; N. Fries; M. Fontanges; G. Haddad; R. Mangione; P. Boukobza; D. Combourieu; P. Bussiere; M. Le Gac; P. Coquel; P. Billen (France)</i>	OC20.07
09:53	Discussion	
09:56	3D ultrasound does not improve diagnosis of retained placental tissue compared to 2D ultrasound <i>J. Belachew; K. Eurenus; O. Axelsson; A. Mulic-Lutvica (Sweden)</i>	OC20.08
10:01	Discussion	

### 10:00 - 10:30 Coffee and e-poster viewing *Bayside Grand Hall*

### 10:30 - 11:50 First trimester screening *Bayside Auditorium A*

**Chairs: L. Platt (United States); A. McLennan (Australia)**

10:30	LIVE SCAN <i>J. Hyett (Australia)</i>	[Supported by: Samsung Medison*]
10:50	The impact of NIPT on diagnostic procedures <i>L. Platt (United States)</i>	
11:10	Discussion	
11:15	Non-invasive prenatal testing for fetal chromosomal abnormalities by low coverage whole genome sequencing of maternal plasma DNA <i>T.K. Lau<sup>1</sup>; M. Chan<sup>2</sup>; P. Lo<sup>1</sup>; F. Jiang<sup>2</sup>; H. Zhang<sup>2</sup>; W. Wang<sup>2</sup> (Hong Kong); <sup>2</sup>(China)</i>	OC21.01
11:20	Discussion	
11:23	Diagnostic consequences of substituting non-invasive (NIPT) for invasive prenatal testing following combined first trimester screening <i>O. Petersen<sup>1</sup>; I. Vogel<sup>1</sup>; J. Hyett<sup>2</sup>; C. Ekelund<sup>1</sup>; A. Tabor<sup>1</sup> (Denmark); <sup>2</sup>(Australia)</i>	OC21.02
11:28	Discussion	
11:31	Results from first trimester screening of 15,009 pregnancies during a seven year period: a quality control <i>T. Larsen; L. Krebs; S. Sina (Denmark)</i>	OC21.03
11:36	Discussion	
11:39	First trimester serum biochemistry and screen positive rates in 3 consecutive pregnancies <i>P. Conner; A. Marsk; H. Almström; S. Gustafsson; M. Kublickas (Sweden)</i>	OC21.04
11:44	Discussion	

\*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.

<sup>YI</sup> This presentation is eligible for the Young Investigator award (to be presented at the closing session).

## Program - Wednesday 9 October 2013

### 10:30 - 11:50 Workshop: Urogynecology I Bayside 204

- Chairs:** *H.P. Dietz (Australia); J. Deprest (Belgium)*
- 10:30 Anterior compartment / urinary incontinence  
*V. Eisenberg (Israel)*
- 10:50 Posterior compartment  
*C. Shek (Australia)*
- 11:10 Anal sphincter imaging  
*R. Guzman Rojas (Australia)*
- 11:30 LIVE SCAN [Supported by: GE Healthcare\*]  
*H.P. Dietz (Australia)*

### 10:30 - 11:50 Multiple pregnancy Bayside Gallery B

- Chairs:** *B. Thilaganathan (United Kingdom); M. Yamamoto (Chile)*
- 10:30 Ultrasound surveillance of twin pregnancy  
*B. Thilaganathan (United Kingdom)*
- 10:45 Mode of delivery  
*A. Gagnon (Canada)*
- 11:00 Embryonic growth discordance and early fetal loss in twins: the STORK multiple pregnancy cohort OC22.01  
*F. D'Antonio; A. Khalil; E. Mantovani; B. Thilaganathan (United Kingdom)*
- 11:05 Discussion
- 11:08 Crown-rump length discordance in first trimester; a predictor of adverse outcome in dichorionic pregnancies? OC22.02  
*M. Johansen; A. Oldenburg; S. Rosthøj; J. Maxild; L. Rode; A. Tabor (Denmark)*
- 11:13 Discussion
- 11:16 Clinical features in monochorionic diamniotic twin pregnancies with large intertwin hemoglobin difference at births OC22.03  
*A. Mabuchi; K. Ishii; R. Yamamoto; T. Taguchi; H. Kawaguchi; M. Murata; S. Hayashi; N. Mitsuda (Japan)*
- 11:21 Discussion
- 11:24 Laser therapy as an exclusive treatment of twin anemia-polycythemia (TAPS) sequence OC22.04  
*F. De Musso; G. Chalouhi; A. Al-Ibrahim; M. Essaoui; J. Stirnemann; L. Salomon; Y. Ville (France)*
- 11:29 Discussion
- 11:32 Pulmonary stenosis in monochorionic diamniotic twin pregnancies: prevalence, management and outcome OC22.05  
*V. Stagnati; G. Chalouhi; J. Stirnemann; M. Essaoui; L. Salomon; Y. Ville (France)*
- 11:37 Discussion
- 11:40 Third trimester weight discordance cut-offs and perinatal mortality in twins: the STORK multiple pregnancy cohort OC22.06  
*F. D'Antonio; A. Khalil; T. Dias; A. Bhide; B. Thilaganathan (United Kingdom)*
- 11:45 Discussion

## Program - Wednesday 9 October 2013

### 11:55 - 12:35 Short oral presentation (OP) sessions

- OP17: Aneuploidy: first trimester**  
*Chairs: T.K. Lau (Hong Kong); D. Nisbet (Australia)* Bayside Auditorium A
- OP18: Urogynecology**  
*Chairs: J. Deprest (Belgium); A. Korda (Australia)* Bayside 204
- OP19: First trimester assessment of growth and Doppler**  
*Chairs: L. Salomon (France); K. Salvesen (Norway)* Bayside Gallery B
- OP20: Technology to improve training and safety**  
*Chairs: C. Brezinka (Austria); A. Ngu (Australia)* Bayside 102
- OP21: Multiple pregnancy**  
*Chair: A. Papageorgiou (United Kingdom); K. Hecher (Germany)* Bayside 103

### 12:30 - 14:00 Lunch and e-poster viewing Bayside Grand Hall

### 12:45 - 13:45 Samsung Medison satellite symposium\*\* Bayside Auditorium A

### 14:00 - 15:20 Workshop: Routine ultrasound: how many, when and for what Bayside Auditorium A

- Chairs:** *K. Maršál (Sweden); R. McEwing (New Zealand)*
- 14:00 Pregnancy dating and fetal anatomy in the first trimester  
*C. Bilardo (Netherlands)*
- 14:20 What to integrate in the second trimester: just anatomy? Uterine arteries, cervix?  
*C. Lees (United Kingdom)*
- 14:40 Is a third trimester ultrasound required, and for what?  
*K. Maršál (Sweden)*
- 15:00 Discussion

### 14:00 - 15:20 Workshop: Urogynecology II Bayside 204

- Chairs:** *V. Eisenberg (Israel); H.P. Dietz (Australia)*
- 14:00 Slings and meshes  
*C. Shek (Australia)*
- 14:25 Levator assessment  
*H.P. Dietz (Australia)*
- 14:50 LIVE SCAN [Supported by: GE Healthcare\*]  
*H.P. Dietz (Australia)*

### 14:00 - 15:20 Workshop: Pre-term labour Bayside Gallery B


- Chairs:** *Z. Alfirevic (United Kingdom); R. Palma Dias (Australia)*
- 14:00 How should we measure cervical length  
*L. Solomon (France)*
- 14:20 Pros and cons of universal cervical length screening  
*J. Hyett (Australia)*
- 14:40 How best to treat short cervix  
*Z. Alfirevic (United Kingdom)*
- 15:00 Discussion

\*Scientific content of sessions is defined by the scientific committees; ultrasound systems and technical support are provided by sponsors.

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## Program - Wednesday 9 October 2013

### 14:00 - 15:20 Workshop: Screening with diagnosis of chromosomal abnormalities: present and future *Bayside 102*

14:00	<b>Chairs: T.K. Lau (Hong Kong); S. Yagel (Israel)</b> Techniques of NIPS: pros/cons and current results <i>T.K. Lau (Hong Kong)</i>	 Conceive. Deliver.
14:20	Integration of NIPS into first trimester strategies <i>S. Yagel (Israel)</i>	
14:40	Integration of arrays in current practice <i>A. McLennan (Australia)</i>	
15:00	Discussion	

### 14:00 - 15:20 Workshop: Fetal therapy *Bayside 103*

14:00	<b>Chairs: M. Bebbington (United States); J. Deprest (Belgium)</b> Cardiac therapy in utero <i>H. Gardiner (United States)</i>
14:20	Current status of treatment of spina bifida <i>M. Bebbington (United States)</i>
14:40	Treatment of CDH and thoracic masses <i>J. Deprest (Belgium)</i>
15:00	Discussion

### 15:20 - 15:50 Coffee and e-poster viewing *Bayside Grand Hall*

### 15:50 - 17:10 Panel discussion: ultrasound and MRI combined approach *Bayside Auditorium A*

15:50	<b>Chairs: E. Gratacós (Spain); A. Gagnon (Canada)</b> Narrator: <i>J. Hyett (Australia)</i> Panel: <i>G. Malinge (Israel); D. Pugash (Canada); G. Condous (Australia); A.E. Millischer (France); L. Salomon (France); S. Yagel (Israel)</i> Introduction and case presentations <i>J. Hyett (Australia)</i>
16:00	The panel is comprised of ultrasound and MR experts and 3 cases: • 20 week CNS anomaly • A history of pelvic pain • Placenta praevia or accreta Each case will be reviewed from taking it from identification during routine screening through the current standard of tertiary assessment to potential future imaging developments that might contribute to defining diagnosis and prognosis. The case will then be opened to the wider panel of experts for comment.
17:00	Summary <i>E. Gratacós (Spain); A. Gagnon (Canada)</i>

### 17:10 - 17:30 Congress closing session *Bayside Auditorium A*

17:10	<b>Chairs: A. Ngu (Australia); E. Gratacós (Spain)</b> Presentation of awards: Young Investigator award and best presentations <i>E. Gratacós (Spain)</i> Closing remarks and introduction to Barcelona <i>A. Ngu (Australia)</i>
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### 17:30 - 18:15 Congress leaving drinks *Bayside Foyer*

Spanish sangria and snacks. Join us in Barcelona!

## OP - Wednesday 9 October 2013

### OP17: Aneuploidy: first trimester *Bayside Auditorium A*

<b>Chairs: T.K. Lau (Hong Kong); D. Nisbet (Australia)</b>	
Nuchal translucency measurements in fetuses according to karyotype in a low risk population <i>C. Ekelund (Denmark)</i>	OP17.01
Are ART women at increased risk of miscarriage and stillbirth following first trimester risk assessment compared to spontaneously pregnant women? <i>C. Wulff (Denmark)</i>	OP17.02
Teleconference tutorials to improve individual operator distributions for nuchal translucency measurement <i>A. Robertson (Australia)</i>	OP17.03
Unintended consequences of UK guidance for anomaly screening and invasive testing <i>M. Alberry (United Kingdom)</i>	OP17.04
Outcomes in case of low PAPP-A and free $\beta$ -HCG in maternal serum at first trimester screening <i>L. Salomon (France)</i>	OP17.05
First trimester biochemical markers in oocyte donated women <i>C. Ekelund (Denmark)</i>	OP17.06
Development of auditable standards in the first trimester ultrasound assessment of fetal blood flow through the ductus venosus and the tricuspid valve <i>V. Pincham (Australia)</i>	OP17.07
Prenatal diagnosis using combined qf-PCR and array CGH analysis as a first line test: results from over 1000 consecutive cases <i>F. Scott (Australia)</i>	OP17.08
Pregnant women's attitude and knowledge of non-invasive prenatal testing (NIPT) in Down syndrome screening in Hong Kong <i>L. Chan (Hong Kong)</i>	OP17.09
Azurocidin in maternal serum in the first trimester and pre-term delivery <i>L. Dhaifalah (Czech Republic)</i>	OP17.10

### OP18: Urogynecology *Bayside 204*

<b>Chairs: J. Deprest (Belgium); A. Korda (Australia)</b>	
3D and 4D transperineal ultrasound for imaging of mesh implants following sacrocolpopexy <i>V. Eisenberg (Israel)</i>	OP18.01
Postprocessing of pelvic floor ultrasound data: how repeatable is it? <i>R. Guzman Rojas (Australia)</i>	OP18.02
Pelvic organ support in nulliparous Africans and Caucasians: a comparative study using 4D pelvic floor ultrasound <i>C. Shek (Australia)</i>	OP18.03
A new simple technique for 3D ultrasound visualization of the pelvic floor muscles <i>A. Youssef (Italy)</i>	OP18.04
Hiatal area and pelvic floor distress inventory scoring in Chinese pelvic organ prolapse women <i>S. Chan (Hong Kong)</i>	OP18.05
Study of correlation between anterior compartment prolapse quantification through transperineal ultrasonography and POP-Q examination <i>H. Wang (China)</i>	OP18.06
Clinical effects and risk factors for levator ani muscle damage in primiparas <i>S. Yagel (Israel)</i>	OP18.07
Three-dimensional (3D) ultrasound (US) imaging of the levator hiatus in singleton and twin pregnancies: a comparative study <i>F. Barros (Brazil)</i>	OP18.08
Delivery-related pelvic floor trauma: does birth position matter? <i>H. P. Dietz (Australia)</i>	OP18.09

\*Supported by an unrestricted educational grant from Natera

## OP - Wednesday 9 October 2013

## OP19: First trimester assessment of growth and Doppler

## Bayside Gallery B

**Chairs:** L. Salomon (France); K. Salvesen (Norway)

- Systematic review of the methodology used for creating dating charts based on fetal crown-rump length OP19.01  
*R. Napolitano (United Kingdom)*
- Influence of maternal age on first trimester crown-rump length and birth outcomes: a population-based study OP19.02  
*A. Metcalfe (Canada)*
- Assessment of crown-rump length measurement variability OP19.03  
*A. McLennan (Australia)*
- Reduced fetal movements at term: association to first trimester uterine artery Doppler assessment OP19.04  
*G. Pagani (United Kingdom)*
- Use of placental volume by three-dimensional ultrasound for the prediction of homozygous  $\alpha 0$ -thalassemia in the first trimester OP19.05  
*M. Chen (Hong Kong)*
- Assessment of the first trimester uterine artery pulsatility index in Hong Kong Chinese pregnant women OP19.06  
*D. Sahota (China)*
- Maternal renal interlobar vein Doppler is not a first trimester predictor of pre-eclampsia: preliminary data OP19.07  
*F. Costa (Australia)*
- Clinical evaluation of a first trimester algorithm predicting the risk of hypertensive disease of pregnancy OP19.08  
*F. Park (Australia)*
- Do first trimester  $\beta$ HCG levels have a predictive role in pregnancy outcome for singleton pregnancies? OP19.09  
*S. Petersen (Australia)*
- Pulsatility index of the uterine arteries between 11 and 13.6 weeks: comparison of measurements by transvaginal and transabdominal Doppler ultrasound OP19.10  
*D. Cafici (Argentina)*

## OP20: Technology to improve training and safety

## Bayside 102

**Chairs:** C. Brezinka (Austria); A. Ngu (Australia)

- Preliminary results from the ISUOG Safety Phantom: presets, probes and flow OP20.01, OP20.02,  
*R. Axell (United Kingdom); C. Lees (United Kingdom)* OP20.03 & OP20.04
- Challenges to ultrasound training in obstetrics and gynecology: a survey across three Scandinavian countries OP20.05  
*M. Tolsgaard (Denmark)*
- Abstract withdrawn OP20.06
- Potential applications of obstetrical ultrasound simulators: teaching and auditing OP20.07  
*G. Chalouhi (France)* & OP20.08

## OP21: Multiple pregnancy

## Bayside 103

**Chairs:** A. Papageorghiou (United Kingdom); K. Hecher (Germany)

- Twin anemia-polycythemia sequence: prevalence, management and outcome OP21.01  
*G. Chalouhi (France)*
- Dichorionic diamniotic twin pregnancy after single blastocyst embryo transfer may not be a rare finding: a single center experience OP21.02  
*T. Murakoshi (Japan)*

## OP - Wednesday 9 October 2013

- The role of CRL discrepancy in prediction of outcome in dichorionic twin pregnancy after IVF conception OP21.03  
*E. Nekrasova (Russian Federation)*
- Perinatal outcomes of complicated monochorionic twin pregnancies managed in a specialized twin clinic OP21.04  
*K. Leung (Hong Kong)*
- Twin-to-twin transfusion syndrome and prenatal attachment OP21.05  
*G. Chalouhi (France)*
- Venous flow studies in TTTS: the use of normal charts to classify fetuses OP21.06  
*M. Yamamoto (Chile)*
- Monochorionic twins with selective growth restriction: is the "Gratacós classification" justified? OP21.07  
*C. Hofstaetter (Switzerland)*
- Evaluating the Gratacós classification system for sIUGR OP21.08  
*R. Narayan (Australia)*
- Perinatal outcomes of surviving smaller twins of birth-weight discordance over 40% OP21.09  
*E. Kim (Republic of Korea)*
- Birthweight and estimated fetal weight discordance and neonatal morbidity in twins: the STORK multiple pregnancy cohort OP21.10  
*A. Khalil (United Kingdom)*
- Is ultrasound-indicated cerclage justified in multiple gestations with short cervix? OP21.11  
*S.A. Kim (Republic of Korea)*





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Poster session	
P01	Abnormal uterine bleeding, fibroids and adenomyosis
P02	Assessment in late pregnancy
P03	Cardiac anomalies and heart function
P04	Fetal echocardiography
P05	First trimester: aneuploidy and anomalies
P06	Second trimester anomalies and aneuploidies
P07	Second trimester anomalies and aneuploidies: just images
P08 (08.01-08.03)	Fetal growth and Doppler
P08 (08.04-08.18)	Fetal growth restriction
P09	Fetal interventions
P10	Fetal neurosonography
P11	Imaging technologies
P12	Keeping ultrasound safe - keeping patients safe
P13	Multiple pregnancy
P14	Ultrasound assessment of pre-term and term labour
P15	Characterising and managing ovarian masses
P16	Early pregnancy
P17	Pelvic pain
P18	Reproductive medicine
P19	Urogynecology
P20	Ultrasound in gynecological oncology
9A	Vascular III

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## Electronic poster stations

### P01: Abnormal uterine bleeding, fibroids and adenomyosis

- The use of real-time elastography in the assessment of uterine disorders P01.01  
*W. Hehenkamp (Netherlands)*  
 Experimental study of lauromacrogol injection in treating endometrial cyst P01.02  
*L. Wang (China)*  
 What maximum measure of fibroid is treatable at the first MRgFUS procedure? P01.03  
*H. Fukunishi (Japan)*  
 Comparison of color Doppler ultrasound and pathology in endometrial cancer and P01.04  
 endometrial hyperplasia  
*D. Zhang (China)*  
 Diagnosis and treatment of a uterine arteriovenous malformation (AVM) P01.05  
*P. Hanna (Republic of Korea)*  
 Broad ligament giant myxoid tumour mimicking a hydatidiform mole P01.06  
*V. Nadasan (Singapore)*

### P02: Assessment in late pregnancy

- HCG/PAPP: a ratio as a predictor of adverse outcomes P02.01  
*N. Sathasivam (Australia)*  
 HDlive rendering image of fetal facial expression P02.02  
*M. Mashima (Japan)*  
 Fetal biometry in the Korean population: reference charts and comparison with international P02.03  
 fetal size charts  
*J. Kwon (Republic of Korea)*  
 A semi-quantitative classification of ductus venosus blood flow patterns P02.04  
*S. Turan (United States)*  
 Prevalence and management of primary varicella infection in pregnancy in a north-west P02.05  
 London hospital  
*P. Tripathi (United Kingdom)*  
 Maternal superobesity: pre- and perinatal management P02.06  
*D. Hartge (Germany)*  
 Longitudinal change of uterine artery Doppler indices in gestational diabetes P02.07  
*S. Lim (Republic of Korea)*  
 Placental thickness in the second trimester P02.08  
*N. Shin (Republic of Korea)*  
 Prediction value of 3D CPA combined with color Doppler ultrasound for hypertensive disorder P02.09  
 complicating pregnancy  
*Z. Han (China)*  
 Comparison of umbilical artery Doppler velocimetry with biophysical profile in monitoring high P02.10  
 risk pregnancies  
*D. Deka (India)*  
 Preliminary study of the clinical value of contrast-enhanced ultrasound in rupture of uterus P02.11  
*X. Chen (China)*  
 Premature constriction of the ductus arteriosus after maternal self-medication with diclofenac P02.12  
*J. Ochoa (Argentina)*  
 Two unusual cases of haemoglobin Bart's hydrops fetalis screened negative on universal P02.13  
 prenatal screening for thalassemia  
*K. Leung (Hong Kong)*  
 Prenatal diagnosis of Hb H hydrops fetalis caused by haemoglobin Adana P02.14  
*M. Alberry (United Kingdom)*

## Electronic poster stations

**P03: Cardiac anomalies and heart function**

- Coarctatio aortae (CoA) diagnosed with B-flow and STIC P03.01  
*P. von Brandis (Norway)*
- Antenatal diagnosis of aortopulmonary window: a case report P03.02  
*S. Kabra (India)*
- Prenatal diagnosis of aortopulmonary window associated with tetralogy of Fallot and persistent left superior vena cava P03.03  
*A. Corbacioglu Esmir (Turkey)*
- Isolated premature restriction of the foramen ovale presenting as non-immune hydrops P03.04  
*J. Ochoa (Argentina)*
- Case report: a rare case of HOLT-ORAM syndrome in a twin pregnancy P03.05  
*A. Kondylios (Greece)*
- Fetal supraventricular tachycardia: a new approach to surveillance and treatment P03.06  
*L. Edwards (Australia)*
- Mitral valve dysplasia syndrome: a case report P03.07  
*Y. He (China)*
- Critical aortic stenosis: a case report of fetal critical aortic stenosis P03.08  
*A. Carmo (Brazil)*
- A case of fetal ductus arteriosus aneurysm P03.09  
*H. Jung (Republic of Korea)*
- Isolated aberrant right subclavian artery in third trimester: a case report P03.10  
*E. Pavlova (Bulgaria)*
- Temporary spontaneous remission of fetal complete heart block in SS-A antibody negative pregnant woman: a rare case report P03.11  
*M. Shiro (Japan)*
- The postural changes of cardiac function in fetus P03.12  
*H. Hong (Republic of Korea)*
- The difference of NT-proBNP levels according to the type of congenital heart disease (CHD) in umbilical cord blood of newborns with prenatally diagnosed CHD P03.13  
*Y. Choo (Republic of Korea)*
- Echocardiographic observation and clinical significance of echogenic intracardiac foci in 310 fetuses P03.14  
*Y. He (China)*
- Abstract withdrawn P03.15

**P04: Fetal echocardiography**

- The changing face of fetal echocardiography P04.01  
*J. Copel (United States)*
- Abnormal 4 chamber still remains the mainstay for suspecting congenital cardiac anomalies: single center experience P04.02  
*B. Chauhan (India)*
- Reevaluation of the fetal cardiac axis in screening of Tetralogy of Fallot P04.03  
*N. Kanagawa (Japan)*
- The utility of the ratio between left atrium - descending aorta distance and descending aorta diameter in the prenatal screening of fetal total anomalous pulmonary venous connection P04.04  
*Y. Kawazu (Japan)*
- Prognostic factors of fetal Ebstein anomaly P04.05  
*N. Inamura (Japan)*
- A sensitive marker for the detection of total anomalous pulmonary venous drainage in fetus P04.06  
*K. Yoshikoshi (Japan)*

## Electronic poster stations

- Can normal three vessels and trachea view exclude fetal conotruncal anomalies? P04.07  
*Y. Xiong (China)*
- Normal level of the three-vessel view and its clinical application P04.08  
*T. Tanaka (Japan)*
- Reference curve of the fetal ventricular septum volume by VOCAL method: preliminary study P04.09  
*F. Barros (Brazil)*
- Reference values for ventricular wall areas in fetuses between 20 and 33+6 weeks by rendered STIC: a preliminary study P04.10  
*F. Barros (Brazil)*
- Coactation or interruption of aortic arch with double aortic arch, hypothesis of their origin from the comparison of fetal echocardiography and neonatal 3DCT P04.11  
*M. Kawataki (Japan)*
- Reference values for ventricular wall volumes in fetuses between 20 and 33 weeks using STIC and VOCAL methods: a preliminary study P04.12  
*F. Barros (Brazil)*
- Evaluating STIC technology as a tool in training non-expert sonographers to perform comprehensive fetal echocardiography P04.13  
*S. Yagel (Israel)*
- Comparison between two-dimensional echocardiography and 3D/4D ultrasound (STIC) screening for congenital heart disease in the second and third trimesters of pregnancy P04.14  
*F. Barros (Brazil)*
- The analysis of fetal echocardiographic reference value in normal fetus and study on relationship of these measurement with gestational age (II) P04.15  
*Y. He (China)*
- The feasibility of four-dimensional ultrasound imaging using spatiotemporal image correlation in the routine fetal cardiac screening P04.16  
*G. Lv (China)*
- Prevalence of 3D/4D articles published in *Ultrasound in Obstetrics & Gynecology* and preference for 3D/4D terms used P04.17  
*J. Deng (United Kingdom)*
- P05: First trimester: aneuploidy and anomalies**
- Correlation between prenatal ultrasound and autopsy findings: a study on first trimester abortion P05.01  
*C. Votino (Belgium)*
- Frontomaxillary facial angle assessment in the first trimester: the effect of ethnicity on 2D and 3D measurements P05.02  
*J. Alphonse (Australia)*
- Frontomaxillary facial angle (FMFA) measurement agreement studies in 2D and 3D P05.03  
*J. Alphonse (Australia)*
- Ultrasound assessment of umbilical cord morphology in the first trimester: a feasibility study P05.04  
*R. Narayan (Australia)*
- Contribution of first trimester screening in the detection of major congenital cardiac defects P05.05  
*S. Oo (Singapore)*
- Investigation of retronasal triangle in fetuses at 11+0 to 13+6 weeks with two- and three-dimensional ultrasound P05.06  
*X. Lin (China)*
- Impact of introduction of non-invasive prenatal testing in private on the uptake of prenatal testing for Down syndrome in a public hospital P05.07  
*K. Leung (Hong Kong)*
- Detailed anatomy scanning in the first trimester versus the early second trimester in the era of NIPT P05.08  
*S. Yagel (Israel)*

## Electronic poster stations

- Factors affecting women's knowledge about non-invasive prenatal testing for Down syndrome  
*K. Leung (Hong Kong)* P05.09
- The effect of smoking on crown-rump length at nuchal translucency ultrasound  
*N. Stamatopoulos (Australia)* P05.10
- The impact of uterine anatomical abnormalities in first-trimester pregnancy-associated plasma protein: is there any correlation of this levels with adverse pregnancy outcome?  
*S. Sotiriou (Greece)* P05.11
- Introduction of combined screening for Down's syndrome: our experience in Walsall Manor Hospital, West Midlands, UK  
*J. Padavala (United Kingdom)* P05.12
- Compare the fetal posterior fossa in normal and chromosomal abnormalities at 11-13+6 weeks' gestation in Chinese population  
*C. Hsiao (Taiwan)* P05.13
- Routine screening for fetal anomalies in the 12th week of pregnancy (1996-2012): advantages and limitations  
*L. Hernadi (Hungary)* P05.14
- False positive MaterniT21 PLUS with vanishing twin  
*N. Davies (United States)* P05.15
- A case of Pierre-Robin syndrome: first-trimester diagnosis of micrognathia  
*H. Jung (Republic of Korea)* P05.16
- First trimester sonographic finding in fetus having tetralogy of Fallot with absent pulmonary valve syndrome: case report  
*J. Lee (Republic of Korea)* P05.17
- P06: Second trimester anomalies and aneuploidies**
- Nomo gram of nuchal fold thickness of Iranian fetuses in second trimester  
*L. Eslamian (Islamic Republic of Iran)* P06.01
- Perinatal outcomes of fetuses with gastroschisis: experience of a single reference service in Brazil  
*F. Barros (Brazil)* P06.02
- Hyperechogenic bowel as a marker for cystic fibrosis in the fetus  
*I. Dhaifalah (Czech Republic)* P06.03
- Chinese pregnant women's attitudes towards non-invasive fetal trisomy test  
*M. Chen (China)* P06.04
- Consideration on the optimal time for effective fetal screening by ultrasound in 2nd and 3rd trimester  
*R. Oi (Japan)* P06.05
- The perception of mothers attending second trimester anomaly ultrasound towards current and future pregnancy  
*S. Abdullah (Malaysia)* P06.06
- Prenatal diagnosis and outcome of congenital cystic adenomatoid malformation of the lung: a report of 9 cases  
*G. Iliev (Romania)* P06.07
- Prenatal diagnosis of radial ray defects: a report of 5 cases  
*C. Hsieh (Taiwan)* P06.08
- Prenatal ultrasound and genetic diagnosis of an autosomal recessive polycystic kidney disease associated with Klinefelter syndrome: rare case report  
*D. Albu (Romania)* P06.09
- A novel frameshift mutation of the STRA6 gene in a Polish boy presenting with Matthew-Wood syndrome  
*D. Nowakowska (Poland)* P06.10
- Full term hydrops fetalis caused by congenital pulmonary lymphangiectasia: a case report  
*Y. Lee (Republic of Korea)* P06.11

## Electronic poster stations

- A successful management of spontaneous complete chorioamniotic membrane separation  
*N. Wada (Japan)* P06.12
- Cervical injection of vasopressin to treat post partum haemorrhage in case of medical abortion with placenta praevia  
*S. Wavrant (Canada)* P06.13
- Dichorionic diamniotic twin gestation affected with paternal disomy 14 (patUPD14)  
*S. Brennan (Australia)* P06.14
- Perinatal outcome in cases with congenital diaphragmatic hernia between 1996-2013 in perinatal center in Lodz  
*D. Nowakowska (Poland)* P06.15
- The diagnostic and prognostic role of prenatal imaging in congenital diaphragmatic hernia: a review of the current literature  
*S. Wavrant (Canada)* P06.16
- P07: Second trimester anomalies and aneuploidies: just images**
- Antenatal 3D ultrasound findings of tracheal pouch of esophageal atresia  
*J. Shin (Republic of Korea)* P07.01
- Prenatal ultrasound features of cardiofaciocutaneous syndrome  
*K. Law (Hong Kong)* P07.02
- Prenatally diagnosed tracheal atresia in twin pregnancy  
*O. Simetka (Czech Republic)* P07.03
- A rare case of facial teratoma appearing in the 26th week of pregnancy  
*A. Kondyliou (Greece)* P07.04
- Prenatal diagnosis of trisomy 18 fetus with diastematomyelia  
*E. Nekrasova (Russian Federation)* P07.05
- The use of 3D and 4D ultrasound in a case of distal arthrogyposis  
*H. Wong (Australia)* P07.06
- Prenatal diagnosis of choledochal cyst: two case reports  
*S. Choi (Republic of Korea)* P07.07
- The 'equals sign': the ideal method to diagnose cleft palate. A case report  
*J. Duyos (Spain)* P07.08
- Prenatal ultrasound diagnosis and follow up treatment of a giant lateral abdominal wall hemangioma  
*D. Albu (Romania)* P07.09
- Prenatal diagnosis of a large axillo-thoraco-abdominal cystic lymphangioma by 3D trasonography  
*J. Cheon (Republic of Korea)* P07.10
- Diagnostic and perinatal management of fetal cervical teratoma: two cases report of ex utero intrapartum treatment (EXIT)  
*D. Nowakowska (Poland)* P07.11
- Gollop-Wolfgang syndrome: an atypic case report  
*S. Wavrant (Canada)* P07.12
- P08 (08.01-08.03): Fetal growth and Doppler**
- Comparison of 3D fetal thymus volumes in pre-eclampsia and healthy pregnancies  
*S. Joung (Australia)* P08.01
- Novel STIC-derived indices of tissue impedance within the placenta: influence of regional variability and maternal pulsatility  
*L. Wu (Australia)* P08.02
- Maternal-fetal endothelial and renal evaluation in gestational diabetes  
*E. Cosmi (Italy)* P08.03

## Electronic poster stations

**P08 (08.04-08.18): Fetal growth restriction**

- Fetal umbilical artery Doppler velocimetry studies versus CTG monitoring as predictors of adverse perinatal outcome in IUGR fetuses: a retrospective study P08.04  
*S. Suplido (Philippines)*
- The Polynesian perinatal paradox P08.05  
*M. Mongelli (Australia)*
- Prediction of macrosomia with conventional third trimester fetal growth assessment in patient with diabetes mellitus P08.06  
*G. Pagani (United Kingdom)*
- Associations between perinatal outcome and Doppler indices of ductus venosus and aortic isthmus in term small-for-gestational age fetuses with both an estimated fetal weight below the 3rd percentile and normal umbilical arterial Doppler: 5 case reports P08.07  
*T. Mishima (Japan)*
- The relationship between first-trimester crown-rump length growth rate and birth weight P08.08  
*K. Park (Republic of Korea)*
- Computerized fetal heart rate analysis in the prediction of myocardial damage in pregnancies with placental insufficiency P08.09  
*R. Nomura (Brazil)*
- Myometrial blood flow analysis in pregnant women with FGR P08.10  
*T. Waseda (Japan)*
- Predictive value of placental volume and related artery parameter forecasting fetal growth restriction from 11 to 28 gestational weeks P08.11  
*Z. Han (China)*
- Fetal middle cerebral artery peak systolic velocity and acidemia at birth in pregnancies complicated by placental dysfunction P08.12  
*R. Nomura (Brazil)*
- Correlation between left modified myocardial performance index and fetal Doppler parameters in pregnancies with placental insufficiency P08.13  
*R. Nomura (Brazil)*
- Stickler Syndrome with early onset intrauterine growth retardation and hypertension P08.14  
*N. Sathasivam (Australia)*
- Are prenatal abdominal aorta wall alterations predictive of cardiovascular disease? A histological study P08.15  
*E. Cosmi (Italy)*
- Systematic thickness analysis of the adipose tissue around the fetal arm across gestation using 2D ultrasound images P08.16  
*C. Knight (United Kingdom)*
- Is a severe birth weigh predictive for a worse follow-up? P08.17  
*E. Cosmi (Italy)*
- The volume of the chorion villosus is associated with the location of the umbilical cord in the first trimester P08.18  
*M. Nakamura (Japan)*
- P09: Fetal interventions**
- Clinical features of fetal congenital cystic adenomatoid malformation managed expectantly or with antenatal therapy at a Japanese single center P09.01  
*A. Yamashita (Japan)*
- Intra-amniotic pentoxifylline to attenuate prenatal inflammation in a caprine model of chorioamnionitis: preliminary results P09.02  
*M. Sezik (Turkey)*

## Electronic poster stations

- Fetal laryngoscopy to evaluate fetal cords in a fetus with congenital high air way obstruction (CHAOS) P09.03  
*R. Ruano (United States)*
- Prediction of outcome in patients with fetal congenital diaphragmatic hernia using liver position and the observed-to-expected lung area to head circumference ratio: a single center study P09.04  
*S. Wada (Japan)*
- Fetal demise following laser in TTTS: data from the Americas P09.05  
*M. Yamamoto (Chile)*
- Health care of fetal abnormalities P09.06  
*J. Hammarqvist-Vejde (Sweden)*
- First successful case of non-invasive in utero treatment of twin reversed arterial perfusion sequence by high intensity focused ultrasound and its short-term prognosis P09.07  
*K. Ichizuka (Japan)*
- Antenatal detection of pseudoamniotic band syndrome after invasive therapy for twin-twin transfusion syndrome P09.08  
*Y. Ting (Hong Kong)*
- Prenatal correction of spina bifida using a fetoscopic approach in humans P09.09  
*R. Sà (Brazil)*
- P10: Fetal neurosonography**
- Abstract withdrawn P10.01
- The utility of the echographic exam in detection of cromosomal abnormalities and other plurimarformative syndromes associated with Dandy-Walker syndrome: review of 15 cases in 2012 P10.02  
*D. Albu (Romania)*
- Study on ultrasonogram of fetus hemivertebral deformity P10.03  
*F. Zhang (China)*
- A case report of congenital CMV infection mimicking Dandy-Walker syndrome by prenatal ultrasonography P10.04  
*J. Shin (Republic of Korea)*
- Prenatal diagnosis of Deletion 18: case report P10.05  
*M. Petrache (Romania)*
- The dynamic of the meningomyelocele in early pregnancy P10.06  
*D. Schwake (Israel)*
- A case of schizencephaly diagnosed at 22 weeks P10.07  
*B. Chauhan (India)*
- Antenatal findings by ultrasound and magnetic resonance imaging of rhombencephalosynapsis: report of two cases from a reference neuroimaging center of Brazil P10.08  
*F. Barros (Brazil)*
- Midtrimester diagnosis of unilateral cerebellar hypoplasia due to antenatal venous sinus thrombosis P10.09  
*B. Davies (Australia)*
- Isolated fetal cerebellar hemorrhage secondary to warfarin therapy P10.10  
*A. Corbacioglu Esmir (Turkey)*
- Antenatal diagnosis of a fetal dural venous thromobosis P10.11  
*W. Carseldine (Australia)*
- Congenital rubella with agenesis of the inferior cerebellar vermis and total anomalous pulmonary venous drainage: a case report P10.12  
*C. Cluver (South Africa)*
- P11: Imaging technologies**
- Assessing fetal fractional arm volume using varying numbers of cross-sectional slices P11.01  
*C. Knight (United Kingdom)*

## Electronic poster stations

- Feasibility of automated transcerebellar axial plane finder using 3-dimensional volume of the fetal posterior fossa  
*J. Kwon (Republic of Korea)* P11.02
- Low-level 45,X/46,XX mosaicism up to 10% of aneuploidy seems not to be associated with higher prevalence of congenital cardiovascular disease and thoracic aorta dilatation: a prospective study  
*M. Procházka (Czech Republic)* P11.03
- Novel automatic coupled ellipse fitting tool for fetal arm adipose tissue quantification in 2D ultrasound images across gestation  
*C. Knight (United Kingdom)* P11.04
- Quantitative ultrasound tissue characteristics of the cervix in pregnancy  
*P. Stone (New Zealand)* P11.05
- Ultrasound measurement of central subcutaneous adiposity to assess risk of adverse outcome in pregnancy  
*N. Kennedy (Australia)* P11.06
- Longitudinal assessment of lung-to-head ratio in healthy fetuses  
*R. Ruano (United States)* P11.07
- Comparison of transcerebellar diameter and cisterna magna depth measurements by manual 2D versus 3D automated TCD program  
*J. Kwon (Republic of Korea)* P11.08
- Prenatal diagnosis of fetus in fetus (FIF) with MRI and biopsy confirmation  
*P. Desai (India)* P11.09
- A control study of the fetal facial skeletons by skeletal rendering mode of 3D ultrasound  
*H. Chang (China)* P11.10
- An automatic algorithm to extract first trimester fetal head and trunk structures from 3D volumes  
*P. Tsai (Taiwan)* P11.11
- Radiologic and gross finding in uterine inversion  
*S. Kim (Republic of Korea)* P11.12
- Value of contrast-enhanced ultrasound (CEUS) technology in the diagnosis of placental accrete  
*X. Chen (China)* P11.13
- Prenatal diagnosis of sirenomelia by combining two-dimensional ultrasound, new fetal skeletal rendering, three-dimensional helical computer tomography and magnetic resonance imaging  
*X. Chen (China)* P11.14
- The impact of video compression on the quality and interpretation of ultrasound video clips of fetal anomalies  
*D. Watson (Australia)* P11.15
- Role of MRI in aid in patient's counselling and decision-making in cases of cervical teratomas  
*S. Wavrant (Canada)* P11.16
- P12: Keeping ultrasound safe - keeping patients safe**
- Utrine arteriovenous malformation in pregnancy: a life threatening diagnosis  
*J. Har-Toov (Israel)* P12.01
- Ultrasonographic diagnosis of uterine rupture at 32 weeks gestation with history of laparoscopic cornual resection  
*Y. Kim (Republic of Korea)* P12.02
- Ectopic pregnancy and ultrasonography: two interesting cases of live early secondary abdominal pregnancy of 12-14 gestational weeks  
*H. Oza (India)* P12.03
- Sonographer skill teaching practices survey (SSTP): instrument development and initial validation  
*D. Nicholls (Australia)* P12.04
- Management of thyroid storm and early-onset severe pre-eclampsia caused by a partial molar pregnancy  
*I. Park (Republic of Korea)* P12.05

## Electronic poster stations

- Role of 2D and 3D/4D ultrasound on maternal-fetal bonding  
*E. Pavlova (Bulgaria)* P12.06
- Gray scale transvaginal ultrasound features and evaluation of a low segment transverse Caesarean section scar in non-pregnant women in the Philippines: a cross-sectional study  
*E. Llamas-Clark (Philippines)* P12.07
- Intraperitoneal prolapse of the amniocele through a myometrial defect at 32 weeks' gestation in a primigravida female without previous uterine scar  
*M. Mishina (Japan)* P12.08
- The effect of adding sufentanil to bupivacaine in TAPS block under ultrasound guide after Caesarean to reduce postoperative analgesic consumption  
*L. Eslamian (Islamic Republic of Iran)* P12.09
- P13: Multiple pregnancy**
- Maternal and perinatal outcome of twin pregnancy based on chorionicity: a Malaysian experience  
*K. Kuppannan (Malaysia)* P13.01
- Our experience with 38 monochorionic twin pregnancies with a suspicion of 2 TAPS cases  
*O. Simetka (Czech Republic)* P13.02
- 3D ultrasonography to evaluate fetal urinary production rates in twin gestation  
*R. Sa (Brazil)* P13.03
- Measurement variation of amniotic fluid pocket in monochorionic diamniotic twin gestations suspected of twin-twin transfusion syndrome  
*A. Mabuchi (Japan)* P13.04
- Concordance between the referral ultrasound (US) for twin-to-twin transfusion syndrome and US findings on arrival to a tertiary center  
*G. Chalouhi (France)* P13.05
- Ultrasound and histological measurements of dividing membrane thickness in twin pregnancies  
*L. Bracero (United States)* P13.06
- Results of laser therapy of twin-to-twin transfusion syndrome in correlation to the place of coagulation of communicating vessels  
*M. Swiatkowska-Freund (Poland)* P13.07
- Interpreting elevated middle cerebral artery-peak systolic velocity of monochorionic twins in the third trimester: association with fetal hemoglobin level  
*S. Kim (Republic of Korea)* P13.08
- Laser therapy by the 'Solomon technique' for early-onset spontaneous twin anemia-polycythemia sequence  
*K. Ishii (Japan)* P13.09
- Perinatal outcome of triplets with feto-fetal transfusion syndrome following fetoscopic laser photocoagulation: experience at Japanese centers  
*K. Ishii (Japan)* P13.10
- Outcome of triplet pregnancies complicated by twin-to-twin transfusion syndrome  
*A. Khalil (United Kingdom)* P13.11
- Sonographic cervical length and systemic inflammation in the third trimester and the risk of pre-term delivery in asymptomatic women with twin pregnancies: a retrospective case-control study  
*S. Lee (Republic of Korea)* P13.12
- The outcome of DD and MD twin at a single center after the introduction of fetoscopic laser photocoagulation for TTTS  
*M. Ohashi (Japan)* P13.13
- Accuracy of estimation of birthweight in twin compared to singleton pregnancies: the STORK multiple pregnancy cohort  
*A. Khalil (United Kingdom)* P13.14
- Maternal diastolic function during twin pregnancies  
*A. Youssef (Italy)* P13.15

## Electronic poster stations

**P14: Ultrasound assessment of pre-term and term labour**

- Cervical morphology in prediction of pre-term birth P14.01  
*D. Tan (Singapore)*
- Objective quantification of elastographic colours of the cervix and reliability of measurements between operators P14.02  
*E. Domey (Australia)*
- Efficacy of progesterone in women with a short cervix; can elastography provide an objective evaluation of treatment efficacy? P14.03  
*M. Burke (Australia)*
- Fetal adrenal gland volume and prediction of pre-term birth P14.04  
*T. Shipp (United States)*
- Preliminary report of 48-hours Atosiban administration in spontaneous pre-term labour: Doppler blood flow assessment of placental and fetal circulation P14.05  
*M. Grzesiak (Poland)*
- Clinical efficacy of cervical volume for prediction of pre-term delivery in symptomatic pre-term labour P14.06  
*L. Young (Republic of Korea)*
- Stiffness of cervix as a predictor of labour onset using transvaginal elastography P14.07  
*H. Miura (Japan)*
- A new method of monitoring the progress of labour: the Sonopartogram P14.08  
*T. Eggebo (Norway)*
- The clinical usefulness of Doppler ultrasound examination in intrapartum assessment of fetal condition P14.09  
*A. Rosner-Tenerowicz (Poland)*
- Sonographic assessment of fetal occiput position during the second stage of labour: how reliable is the transperineal approach? P14.10  
*A. Youssef (Italy)*
- Sonographic assessment of fetal head position during the first and second stage of labour for the prediction of persistent occiput posterior position and labour dystocia P14.11  
*S. Choi (Republic of Korea)*
- What is the operative delivery rate of fetal occiput transverse position in the second stage of labour? P14.12  
*K. Graham (Australia)*
- Agreement between two- and three-dimensional methods for the assessment of the fetal head-symphysis distance in active labour P14.13  
*A. Youssef (Italy)*
- Prediction of delivery mode using ultrasound measurements and digital examinations P14.14  
*T. Eggebo (Norway)*
- Cesarean delivery rate when the fetal head station is engaged, assessed clinically and non-invasively P14.15  
*J. Nizard (France)*
- Prolonged second stage of labour and levator ani muscle injuries P14.16  
*V. Marsoosi (Islamic Republic of Iran)*
- Relationship between intrapartum ultrasound measurements in the first stage of labour P14.17  
*T. Fanelli (United Kingdom)*
- Caput succedaneum by ultrasound P14.18  
*C. Lees (United Kingdom)*
- Abstract withdrawn P14.19
- The frequency and clinical significance of intrauterine hematoma in immediate postpartum period P14.20  
*S. Kim (Republic of Korea)*
- 3D transvaginal ultrasonography appears more accurate than 2D in third trimester evaluation of placenta previa P14.21  
*F. Perrotin (France)*

## Electronic poster stations

- Emergency cervical cerclage for the treatment of patients with placenta previa: two cases P14.22  
*Y. Jo (Republic of Korea)*
- Differential effects of cigarette smoke on birth weight by maternal body mass index P14.23  
*M. Mongelli (Australia)*
- The fetal adrenal gland and prediction of spontaneous labour at term P14.24  
*T. Shipp (United States)*
- Influence of location of placental hematoma on the process of chronic abruption-oligohydramnios sequence (CAOS) patients P14.25  
*A. Tajima (Japan)*
- P15: Characterising and managing ovarian masses**
- Offline reproducibility assessment of IOTA simple rules by OB/GYN trainees P15.01  
*J. Alcazar (Spain)*
- A case of pseudomyxoma peritonei: an ultrasound perspective P15.02  
*P. Shetty (Australia)*
- Abdominopelvic TB: sonographic features of a progressive disease P15.03  
*R. Panlilio-Vitriolo (Philippines)*
- Ovarian cellular fibroma mimicking ovarian malignancy: case report P15.04  
*L. Ng (Singapore)*
- P16: Early pregnancy**
- Does cigarette smoking affect the first trimester longitudinal embryonic growth rate? P16.01  
*N. Stamatopoulos (Australia)*
- Placenta localisation in first trimester pregnancies of women undergoing *in vitro* fertilization treatment P16.02  
*M. Baumgarten (United Kingdom)*
- Disseminated trophoblastic peritoneal implants at uterine muscle, ovary, and peritoneal wall after dilatation and curettage P16.03  
*J. Choi (Republic of Korea)*
- Negative urine HCG and ruptured ectopic pregnancy (EP) P16.04  
*F. Ajibade (United Kingdom)*
- 12 week abdominal ectopic pregnancy P16.05  
*N. Sathasivam (Australia)*
- Cesarean scar pregnancy: diagnosis, treatment and sonohysterography follow up. A case report P16.06  
*P. Piekarski (Poland)*
- Cervical ectopic pregnancy: a diagnostic challenge P16.07  
*J. Padavala (United Kingdom)*
- An unusual sonographic appearance of a complete hydatidiform molar pregnancy compared to more typical gestational trophoblastic disease: a case study P16.08  
*R. Smith (Australia)*
- P17: Pelvic pain**
- The association between pouch of Douglas obliteration at TVS and surgical findings at laparoscopy in women with suspected endometriosis P17.01  
*S. Reid (Australia)*
- The reproducibility of the three dimensional (3D) ultrasonography in the diagnosis of deep endometriosis: effect of a specific training P17.02  
*S. Guerriero (Italy)*
- Congenital transverse vaginal septum presenting as primary amenorrhoea and abdominal mass: ultrasonographic diagnosis P17.03  
*H. Oza (India)*

## Electronic poster stations

Technology making ectopic pregnancy more of histological diagnosis  
*F. Ajibade (United Kingdom)* P17.04

Two cases of spontaneous rupture of endometrial cyst in non-pregnant state  
*V. Oza (India)* P17.05

### P18: Reproductive medicine

Transvaginal, transrectal and transabdominal ultrasound assessment of the polycystic ovary syndrome  
*J. Lee (Republic of Korea)* P18.01

Spectrum of imaging findings in female infertility  
*S. Thippavong (Canada)* P18.02

Life threatening Group A sepsis secondary to HyCoSy  
*R. Rodgers (Australia)* P18.03

Migration of initially properly placed Mirena levonorgestrel-releasing intrauterine device (IUD) in two patients: case report  
*M. Kudla (Poland)* P18.04

### P19: Urogynecology

Reliability and validation of 3D electromagnetic tracking during voluntary and reflex pelvic floor muscle activity during dynamic whole body movements  
*H. Moser (Switzerland)* P19.01

Ultrasonografic imaging of vulvar structures in adult and perimenopausal women using high frequency ultrasound (HFU): preliminary report  
*M. Miqda (Poland)* P19.02

The prevalence of anal sphincter injury following childbirth using endoanal ultrasound in Chinese primiparous women  
*T. Law (Hong Kong)* P19.03

Utility of high frequency ultrasound (HFU) in vulvar skin structures imaging in adult and perimenopausal women  
*M. Miqda (Poland)* P19.04

Assessment of bladder neck compliance by using transvaginal real-time elastography of women  
*Y. Huang (China)* P19.05

### P20: Ultrasound in gynecological oncology

Peritoneal tuberculosis mimicking ovarian cancer  
*M. Erman Akar (Turkey)* P20.01

The characteristic of three dimension power Doppler in gestational trophoblastic disease  
*R. An (China)* P20.02

The value of puncture biopsy guided by transvaginal ultrasound in the diagnosis of cervical diseases  
*L. Wang (China)* P20.03

Endometrial assessment in postmenopausal women: can we decrease the number of invasive procedures?  
*M. Santos Bernardo (Portugal)* P20.04

### P9A: Vascular VIII (ASUM)





Pilot study: predictive value of renal vein velocity in the assessment of renal allograft dysfunction at day 1  
*J. Saunders (Australia)* P9A.01

## Exhibition & sponsorship

### Satellite symposia

Room	Sunday 6 October	Monday 7 October	Tuesday 8 October	Wednesday 9 October
Bayside Auditorium A	<b>PHILIPS</b> 13:25 - 14:25	 GE Healthcare 12:45 - 13:45	<b>TOSHIBA</b> Leading Innovation >>> 12:40 - 13:40	 12:45 - 13:45

### Hospitality suites

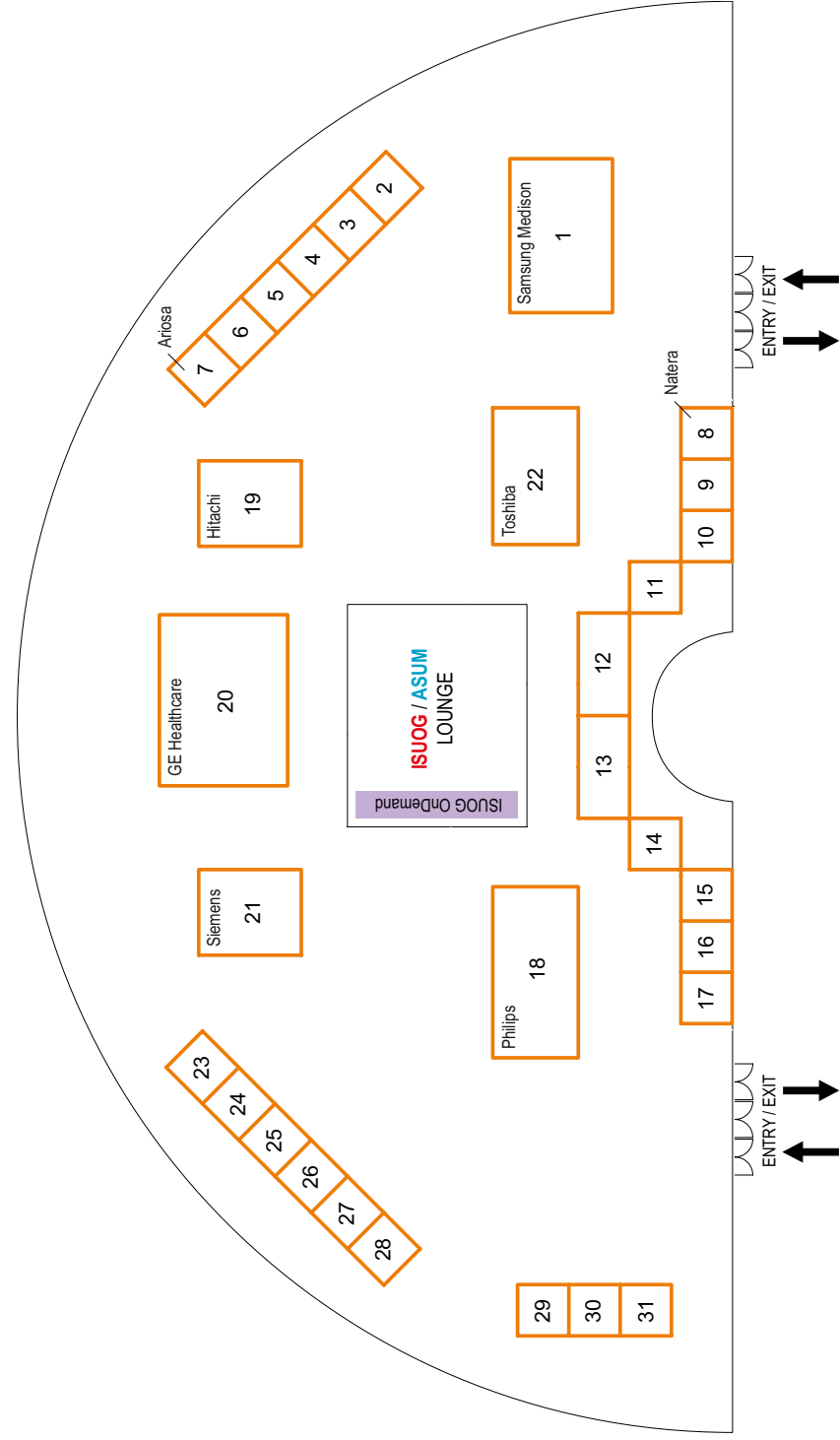
Room	Sunday 6 October	Monday 7 October	Tuesday 8 October	Wednesday 9 October
Bayside Gallery A	 GE Healthcare VolusonClub lounge & hospitality suite			
Bayside 104	 natera Conceive. Deliver.	 GE Healthcare	Meet the Experts hospitality suite	
Bayside 201	<b>TOSHIBA</b> Leading Innovation >>>		Hospitality & demonstration sessions	
Bayside 202	<b>PHILIPS</b>	Hospitality & demonstration sessions	<b>HITACHI</b> Inspire the Next	Hospitality & demonstration sessions
Bayside 203	 SAMSUNG MEDISON		Hospitality & demonstration sessions	

### Exhibition opening times

Room	Sunday 6 October	Monday 7 October	Tuesday 8 October	Wednesday 9 October
Bayside Grand Hall	10:00 - 20:30	10:00 - 16:30	10:00 - 16:30	10:00 - 16:00



## Exhibition floor plans



## Exhibitor listing

Company	Stand number	Company	Stand number
Airosa Diagnostics	7	ISUOG	<b>ISUOG lounge</b> 29
astraira	9	Karl Storz	17
ASUM	<b>ASUM lounge</b>	Medaphor	23
Australian Medical Couches	16	Meditron	12
Australian School of Medical Imaging	2	Mindray	14
CAE Healthcare	3	Nanosonics Limited	8
Cook Medical	5	Natera	13
Cynetics IT	28	PerkinElmer	18
GE	20	Philips	1
GyTech	24	Samsung Medison	21
Healthcare Imaging Services Pty Ltd	25	Siemens	11
Health Staff Solutions	27	Sonosite FUJIFILM	30 / 31
Hitachi Aloka Medical Ltd	19	Spintech Oceania Pty Ltd	22
Hologic	15	Toshiba	6
I-Med	10	Tristel	4
Verinata	26	Ultrasound Training Solutions	

## Exhibitor profiles

**Ariosa Diagnostics****Booth no: 7**

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Ariosa® Diagnostics, Inc. is a molecular diagnostics company committed to innovating together to improve patient care. The flagship product, the Harmony™ Prenatal Test, is a safe, highly accurate and affordable prenatal test for maternal and fetal health. Led by an experienced team, Ariosa is using its proprietary technology to perform a directed analysis of cell-free DNA in blood. The Harmony Prenatal Test equips pregnant women and their healthcare providers with reliable information to make decisions regarding their health, without creating unnecessary stress or anxiety.

**astrai software gmbh****Booth no: 9**

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astrai is market leader and pioneer in obstetric and gynaecological database applications. Founded in 2000, its headquarters are in Munich, Germany, with a dedicated team of 30 employees as well as local sales partners, supporting more than 1,000 customers worldwide.

astrai offers high-end solutions that are up-to-date with the latest scientific data, a highly optimised work-flow and flexible approach. astrai has been translated into more than 25 languages and is available in several regional configurations.

**Australasian Society for Ultrasound in Medicine****ASUM lounge**

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The Australasian Society for Ultrasound in Medicine is an Australian and New Zealand multidisciplinary society whose mission is to advance the clinical practice of medical ultrasound for the highest standards of patient care.

ASUM is the peak body representing all users of ultrasound and aims to encourage and assist education and research in diagnostic ultrasound; lay down appropriate standards of practice; provide certification indicating proficiency in ultrasound; advise Government and Statutory Authorities on aspects of the practice of diagnostic ultrasound; and provide social intercourse and good fellowship among practitioners.

**Australian School of Medical Imaging****Booth no: 2**

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ASMI delivers world class quality ultrasound training for Radiologists, Sonographers and Gynecologists as well as developing and providing Trainee Sonographers with over 200 hours scanning time and up to 50% Graduate Diploma or DMU Part 1 completed. ASMI supports the university pathway to qualification and has Australia's most renowned faculty of educators and tutors including Dr Sue Campbell Westerway.

## Exhibitor profiles

**Australian Medical Couches****Booth no: 16**

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Australian Medical Couches specialise in manufacturing examination couches for specialists and General Practitioners in the medical field. Our couches are designed to meet the individual needs for Doctors, Gyneacologists, Sonographers and Dermatologists amongst others, and meet the standards in ISO-9001. We have a range of 30 colours to meet your practices requirements and all of our fabrics are medical grade, hard wearing and stain resistant. We offer a lifetime warranty on the frame and 5 years on the motors which makes a clear statement about our quality.

**CAE Healthcare****Booth no: 3**

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CAE Healthcare delivers leading-edge simulation training solutions to hospitals, physicians, nurses, students, emergency responders and the military around the world. Each product is developed in partnership with clinicians and clinical educators whose aim is to ensure physiological accuracy and educational relevance. Visit the CAE Healthcare booth to learn about our advanced patient, imaging and surgical simulators, including iStan, Caesar, VIMEDIX and LapVR. Ask about Blue Phantom ultrasound trainers and LearningSpace center management solution.

**Cook Medical Australia Ply Ltd****Booth no: 5**

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Since its founding, Cook Medical has focused on collaborating with physicians and medical researchers in order to create minimally invasive medical devices that meet patients' needs. Cook's Women's Health clinical division brings that focus and collaboration to the practices of diagnostic imaging, assisted reproductive technology, maternal fetal medicine, obstetrics and gynecology. As a result, we have created procedure-changing devices such as the Bakri Balloon, which effectively manages postpartum hemorrhage, and the Cervical Ripening Balloon, which safely and naturally helps to induce labor.

**Cynetics IT****Booth no: 28**

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Cynetics IT is an Australian software company that specialises in Web based Patient Information Systems and Picture Archive Communication Systems (PACS) for Obstetric and Gynaecology Ultrasound Imaging Clinics.



## Exhibitor profiles

### GE Healthcare

Booth no: 20



GE imagination at work

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### Gytech Pty Ltd

Booth no: 24

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Gytech is the distributor for ExEm® Foam. ExEm® Foam enables easy recognition of tubal patency. The ExEm® gel has been specifically developed for gynaecological intracavity ultrasound imaging and is TGA approved for this purpose. By mixing ExEm® gel and purified water a gel foam is created. After infusing the foam through the uterine cavity into the fallopian tubes, practical ultrasound images can be obtained to check the patency of the fallopian tubes in infertility patients or to confirm occlusion in Essure patients.

### Healthcare Imaging Services Pty Ltd

Booth no: 25

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Healthcare Imaging Services (HIS) currently operates in over 160 sites consisting for public and private hospital clinics, comprehensive community sites and large medical centre sites.

HIS has a strong culture of efficiency, quality and accountability. It supports the contribution of staff through an extensive incentive scheme. HIS encourages all delegates to visit our stand and meet our friendly staff to learn more about our attractive Sonographer bonus scheme and working with HIS in the future.

### Health Staff Solutions

Booth no: 27

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Health Staff Solutions is a specialist healthcare recruitment agency with over 25 years' industry experience. This experience shapes everything we do to find the right people for the right jobs. Working in partnership with Australia's leading medical imaging providers, we are able to assist candidates and clients alike. Our consultants James and Ranes will be at the conference so come and say hello and we would be happy to answer any questions you may have.



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For more than four decades, Voluson\* has delivered clinical innovations dedicated to women's health imaging. Today, the Voluson family of products offers its widest range of solutions tailored to meet your clinical and budgetary needs.

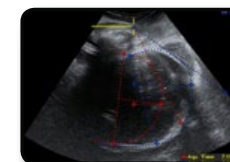
Visit booth #20 to explore how Voluson can help you make confident clinical decisions and help grow your practice.

Visit us at [www.voluson.com](http://www.voluson.com)

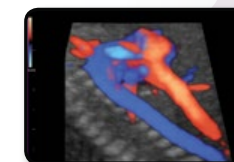
Please visit us at our booth #20.



High resolution imaging with RIC6-12 probe



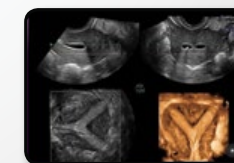
SonoVCADlabor provides insight into labor progression



STIC with HD-Flow\* for assessment of the fetal heart



SonoAVC\* follicle of stimulated ovary



Gain additional insight with Volume imaging



HDIze helps provide clinical confidence and enrich patient communication



Easy nuchal translucency measurements with SonoNT



imagination at work

\* Trademark of General Electric Company.

## Exhibitor profiles

**Hitachi Aloka Medical Ltd** Booth no: 19

**HITACHI**  
Inspire the Next

**ALOKA**  
illuminate the change

6-22-1, Mure, Mitaka-shi, Tokyo, 181-8622, Japan  
T: +81 422 45 6049  
F: +81 422 45 4058  
C: *Tsuyoshi Tsuta*  
E: [tsut1686@hitachi-alko.co.jp](mailto:tsut1686@hitachi-alko.co.jp)  
W: [www.hitachi-alko.co.jp/english](http://www.hitachi-alko.co.jp/english)

For over 60 years HITACHI ALOKA, the Innovator in Ultrasound has been the world's leading pioneer of ultrasound diagnostic systems for the healthcare industry as the longest dedicating ultrasound company in the world. HITACHI ALOKA provides obstetrics/gynaecology, radiology, cardiology, surgical, urology and other applications with a broad array of innovative ultrasound technologies. As a member of the HITACHI group, HITACHI ALOKA aims to contribute to further healthcare and wellbeing of people and society.

**Hologic** Booth no: 15

Suite 402, Level 4, 2-4 Lyon Park Road,  
Macquarie Park NSW 2113, Australia  
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F: +61 2 9870 7555  
C: *Tara Helies*  
E: [tara.helies@hologic.com](mailto:tara.helies@hologic.com)  
W: [www.hologic.com](http://www.hologic.com)

Hologic, Inc. is a leading developer, manufacturer and supplier of premium diagnostic and medical imaging systems and surgical products dedicated to serving the healthcare needs of women. Hologic's core business units are focused on mammography and breast biopsy, radiation treatment for early-stage breast cancer, cervical cancer screening, treatment for menorrhagia, osteoporosis assessment, and preterm birth screening.

**I-Med Network Radiology** Booth no: 10

Lvl 24, 201 Kent St, Sydney, NSW 2000, Australia  
T: +61 2 8274 1035  
F: +61 2 8274 1077  
C: *Iona Clarkson*  
E: [iona-clarkson@i-med.com.au](mailto:iona-clarkson@i-med.com.au)  
W: [www.i-med.com.au](http://www.i-med.com.au)

I-Med Network Radiology is Australia's largest private medical imaging network, covering all major metropolitan areas and significant parts of rural and regional Australia. I-Med Operates 200 clinics and performs more than 4 million patient procedures each year making us one of the largest providers of medical imaging in the world.

**Verinata** Booth no: 26

800 Saginaw Drive, Redwood City, CA 94063, USA  
T: +101 650-503-5200  
F: +101 650 503 5201  
C: *Client Services*  
E: [jhavlek@verinata.com](mailto:jhavlek@verinata.com)  
W: [www.verinata.com](http://www.verinata.com)

Verinata Health (Verinata), an Illumina company, is driven by a sole and extraordinary purpose — maternal and fetal health. Through our advanced proprietary technologies, Verinata offers non-invasive tests for early identification of fetal chromosomal abnormalities.

Verinata's veriFi@ prenatal test is available through licensed healthcare providers. For more information about Verinata, visit the website. For more information on the veriFi@ test, please contact Verinata Health's Client Services.



## Exhibitor profiles

**ISUOG** ISUOG lounge

**isuog**.org

122 Freston Road, W10 6TR, London, UK  
T: +44 (0)20 7471 9955  
F: +44 (0)20 7471 9959  
C: *Michael Semmence*  
E: [info@isuog.org](mailto:info@isuog.org)  
W: [www.isuog.org](http://www.isuog.org)

With 7433 members in 124 countries, ISUOG is the leading society in women's imaging. ISUOG delivers high quality learning through education programs, online resources and the World Congress and disseminates research information and clinical guidance through its journal *Ultrasound in Obstetrics and Gynecology (UOG)*.

Visit the ISUOG lounge to find out more about our membership, events and to collect a sample of our latest journal (while stocks last).

**Karl Storz GmbH & Co. KG** Booth no: 29

Mittelstrasse 8, 78532 Tuttlingen, Germany  
T: +49 7461 7080  
F: +49 7461 7083 77  
C: *Mrs. Sigrid Lanzillotti*  
E: [info@karlstorz.com](mailto:info@karlstorz.com)  
W: [www.karlstorz.com](http://www.karlstorz.com)

Karl Storz is a renowned manufacturer that is well established in all fields of endoscopy and can be considered as market leader in rigid endoscopy. The still family held company was founded in 1945 in Tuttlingen, Germany, and has grown to one with a worldwide presence and 5800 employees. Karl Storz offers a range of both rigid and flexible endoscopes for a broad variety of applications. Today's product range also includes fully integrated concepts for the or and servicing.

**Medaphor Ltd** Booth no: 17

The Medicentre, Heath, Cardiff, CF14 4UJ, Wales, UK  
T: +44 2920 756534  
C: *Stuart Gall*  
E: [stuart.gall@medaphor.com](mailto:stuart.gall@medaphor.com)  
W: [www.medaphor.com](http://www.medaphor.com)

MedaPhor is a global ultrasound training company, selling a range of virtual reality ultrasound training simulators, which bridge the gap between conventional training and the patient. Their award winning Scantrainer is a 24/7 virtual reality ultrasound training simulator, which combines 'real-feel' haptic simulation with real patient scans and curriculum-based interactive learning, to provide fast and effective ultrasound training in a non-clinical environment.

**Meditron Pty Limited** Booth no: 23

PO Box 4230, Ringwood, VIC 3134, Australia  
T: +61 3 9879 6200  
F: +61 3 9879 6244  
C: *Pam Zenner*  
E: [info@meditron.com.au](mailto:info@meditron.com.au)  
W: [www.meditron.com.au](http://www.meditron.com.au) / [www.civco.com](http://www.civco.com)

Civco Medical are a world leading manufacturer of Ultrasound & Imaging Accessories including transducer covers for all types of ultrasound transducers & Needle Guides for biopsies & drainage procedures.

**Mindray** Booth no: 12

Mindray Building Keji 12th Road South,  
High-tech Industrial Park Nanshan,  
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T: +86 755 81887345  
F: +86 755 26582680 87345  
C: *Nancy Duan*  
E: [nancy\\_ddd@mindray.com](mailto:nancy_ddd@mindray.com)  
W: [www.mindray.com](http://www.mindray.com)

Mindray was founded in 1991 with the goal of delivering high-quality, competitively priced medical devices to make healthcare more accessible around the world. Mindray has three well-established business segments: Patient Monitoring and Life Support Products, In-Vitro Diagnostic Products and Medical Imaging Systems.

To date, Mindray's global sales network has covered more than 190 countries and regions.

Introducing a new era in premium ultrasound.  
Philips' new



platform gives you more diagnostic detail and certainty than ever before. With EPIQ, you can see a full volume fetus in the third trimester or acquire fetal heart volume in as little as two seconds. This is the ultrasound you've wished for, with PureWave solutions for every gestational age and gynecological applications for more definitive diagnosis on your most difficult patients. See for yourself at [www.philips.com/EPIQ](http://www.philips.com/EPIQ)

Philips EPIQ. Epic in every way.

# PHILIPS

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## Exhibitor profiles

### Nanosonics Limited

Booth no: 14

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NSW 2015, Australia  
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F: +61 2 9317 5010  
C: *Jonathan Wright*  
E: [info@nanosonics.com.au](mailto:info@nanosonics.com.au)  
W: [www.nanosonics.com.au](http://www.nanosonics.com.au)

Nanosonics Ltd is a listed company on the ASX with corporate headquarter in Sydney, Australia and offices in the USA (Nanosonics Inc) and Europe (Nanosonics Europe GmbH).

We are a leader in the development of innovative technology for infection control. Our flagship product, trophon® EPR, is the first automated system for fast, safe and effective ultrasound transducer disinfection. This unique platform technology effectively disinfects the probe including the shaft and handle - in just seven minutes between patients.

### Natera

Booth no: 8



201 Industrial Drive Suite 410, San Carlos,  
California, USA  
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F: +1 650 362 9574  
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E: [ccruz@natera.com](mailto:ccruz@natera.com)  
W: [www.panoramatest.com](http://www.panoramatest.com)

In late 2012 Natera announced The Panorama™ Test, the most accurate and comprehensive non-invasive prenatal test available. Natera has a history of proven excellence in reproductive genetic testing having previously launched preimplantation genetic diagnosis (PGD) for IVF, carrier screening and the only prenatal non-invasive paternity test.

### Perkin Elmer

Booth no: 13

Mustionkatu 6, 20750, Turku, Finland  
T: +358 2 2678 111  
F: +358 2 2678 332  
C: *Ms. Tytti Massinen*  
E: [tytti.massinen@perkinelmer.com](mailto:tytti.massinen@perkinelmer.com)  
W: [www.perkinelmer.com](http://www.perkinelmer.com)

PerkinElmer is a global company focused on improving the health and safety of people and their environment. Targeting health right at the start of life, the company supplies a range of instruments and serum-based or dried blood spot-based assays for 1st and 2nd trimester aneuploidy screening. For faster and more comprehensive prenatal diagnosis Prenatal BoBs™ is a bead-based multiplex assay designed to detect aneuploidies of chromosomes 13, 18, 21, X and Y, as well as copy number changes in 9 common microdeletion syndrome regions.

PerkinElmer has also launched the world's first PIGF assay intended for 1st trimester prediction of pre-eclampsia and a high through-put Fragile X diagnostic assay.

### Philips

Booth no: 18

# PHILIPS

Locked Bag 30, North Ryde, NSW 1670 /  
65 Epping Road, North Ryde, NSW 2113, Australia  
T: +61 1800 251 400  
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W: [www.philips.com.au/healthcare](http://www.philips.com.au/healthcare)

We're dedicated to understanding the challenges our customers face – and helping them overcome those challenges. Every day. We strive to improve the quality of people's lives and to continue raising the bar on clinical excellence at lower overall costs to the system.

This is People focused. Healthcare simplified.

## Exhibitor profiles

**Samsung Medison**

**Booth no: 1**

**SAMSUNG**

### SAMSUNG MEDISON

Samsung Medison Co Ltd. 3366, Hanseo-ro,  
Nam-Myeon, Hongcheon-gun, Gangwon-do, Korea  
T: +82 2 2194 1131  
F: +82 2 563 6528  
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E: [hm11.park@samsungmedison.com](mailto:hm11.park@samsungmedison.com)  
W: [www.samsung.com/global/business/healthcare](http://www.samsung.com/global/business/healthcare)

Samsung Medison is an affiliate of the elite global company Samsung Electronics and it has quickly moved forward, making rapid progresses in the diagnostic imaging equipment market. By upholding customer values as its top priority, Samsung Medical Equipment will support fast, easy and accurate diagnoses through its superior technologies and products. Samsung will make continuous efforts to contribute to the growth of the global medical equipment industry and also to improve the quality of people's lives through its advanced technologies.

**Siemens Healthcare**

**Booth no: 21**

**SIEMENS**

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F: +61 3 0036 0222  
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W: [www.siemens.com.au/healthcare](http://www.siemens.com.au/healthcare)

Siemens Healthcare is one of the world's largest suppliers to the healthcare industry and a trendsetter in medical imaging, laboratory diagnostics and medical information technology. Siemens offers its customers innovative solutions for the entire range of patient care. By optimising clinical workflows for the most common diseases, Siemens makes healthcare faster and more cost-effective. Siemens in Australia and New Zealand is committed to research and development to find innovative solutions for healthcare, now and in the future.

**SIEMENS**

## Discover the world's first ultrasound system with wireless transducers

[www.siemens.com/ultrasound](http://www.siemens.com/ultrasound)

Introducing the ACUSON Freestyle ultrasound system

Designed for interventional radiology and point-of-care applications, the ACUSON Freestyle ("Freestyle") features wireless transducers with scanning parameters that can be remotely controlled within the sterile field. This reduces

contamination and infection risk and facilitates fast and ergonomic examination procedures. The Freestyle also produces excellent clinical images throughout the field of view with its advanced synthetic aperture imaging technology. Its portability also enables it to be easily maneuvered in a tight space or operating room.

Answers for life.

## A Game Changer in Women's Health Ultrasound



### ULTRASOUND SYSTEM UGEO WS80A

UGEO WS80A, a new premium ultrasound system for women's health, offers outstanding image performance with innovative technologies that facilitate various exams during pregnancy and complex gynecological or breast exams. Experience the game changing innovations.

Join Samsung booth #01  
at Bayside Grand Hall, Sydney Convention and Exhibition Centre



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WITH CUTTING-  
EDGE TECHNOLOGY.



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THE NEW GENERATION - A GIANT LEAP FORWARD

VISIT US AT ISUOG 2013 BOOTH #22



## Exhibitor profiles

### Sonosite FUJIFILM

Booth no: 11

Suite 9, 13a Narabang Way, Belrose, Australia  
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F: +61 2 9479 0408  
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W: [www.sonosite.com](http://www.sonosite.com)

FUJIFILM SonoSite, Inc., the world leader in bedside and point-of-care ultrasound, delivers solutions that meet the imaging needs of the medical community. Sonosite offers a family of products backed by our industry leading 5-year warranty.

Edge® offers enhanced image quality.

M-Turbo® a versatile system for abdominal, nerve, vascular, cardiac, venous access, pelvic and superficial imaging.

S Series™ mountable ultrasound systems, with simplified controls to let you focus on target areas.

NanoMaxx® Simple control and high-quality diagnostic imaging.

### Spintech Oceania Pty Ltd

Booth no: 30/31

Unit J95, 21 Hall Street, Port Melbourne,  
VIC 3207, Australia  
T: +61 3 9646 7797  
F: +61 3 9646 7473  
C: *Phil Spinks*  
E: [phil@spintech-oceania.com.au](mailto:phil@spintech-oceania.com.au)  
W: [www.spintech-oceania.com.au](http://www.spintech-oceania.com.au)

Spintech Oceania Pty Ltd specialises in providing innovative solutions for the national medical marketplace. We have recently developed a software solution called MIDAS that provides a world first in automatically analysing ultrasound measurements to provide a fully customised diagnostic report. This innovative, flexible software interprets the measurements and associated observations just like the reporting specialist would, delivering efficiency, accuracy and accountability in Clinical Reporting. Modules have already been developed for Vascular, Phlebology, Obstetrics and Cardiology with many more modules currently in development.

### Toshiba Medical Systems

Booth no: 22

## TOSHIBA

Leading Innovation >>>

12-24 Talavera Road, North Ryde,  
NSW 2113, Australia  
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W: [www.medical.toshiba.tap.com](http://www.medical.toshiba.tap.com)

Following the Made for Life commitment, patients are the primary focus of Toshiba's innovations. Toshiba's commitment to help improve patient care spans across all of its modalities.

Superior imaging performance is one of the key reasons that make Aplio one of today's most popular premium diagnostic ultrasound systems. A full range of clinically proven tools offers uncompromised image quality. A host of advanced imaging and quantification functions ensures that you can make the best informed disease management decisions.



## Exhibitor profiles

**Tristel Solutions Limited****Booth no: 6**

Lynx Business Park, Fordham Road, Snailwell,  
Cambridgeshire, CB8 7NY, UK  
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C: *Julija Shabanova*  
E: [mail@tristel.com](mailto:mail@tristel.com)  
W: [www.tristel.com](http://www.tristel.com)

Tristel pioneered the replacement of glutaraldehyde in the United Kingdom with its proprietary chlorine dioxide chemistry, which is well-documented in various national and international guidelines, publications and case studies. Tristel has been supplying hospitals with high-quality solutions for 20 years. The Tristel for Ultrasound product range consists of easy-to-use, safe and cost effective solutions for the decontamination of medical devices used in gynaecology. Visit Tristel at stand 6 for more information.

**Ultrasound Training Solutions** **Booth no: 4**






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T: +61 418 506 878  
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W: [www.ultrasoundtraining.com.au](http://www.ultrasoundtraining.com.au)

Using ultrasound but can't get 'the' view? Want to discover new techniques? Struggling with your machine? We can help.

With courses designed and delivered by leading physicians we provide skills that improve point of care outcomes. We offer introductory to advanced level courses, covering obstetrics, emergency medicine, critical care, echo and regional anaesthesia. We can also work with you to develop a program that can be delivered at our place or yours.



## Hospitality suites

Room	Sunday 6 October	Monday 7 October	Tuesday 8 October	Wednesday 9 October
Bayside Gallery A	 GE Healthcare			
	<b>VolusonClub lounge &amp; hospitality suite</b> Visit VolusonClub hospitality suite to experience today's Voluson and Viewpoint innovations, and learn how Voluson technology can help you address clinical challenges. Attend educational seminars and see the latest enhancements on Voluson products and Viewpoint. GE Voluson customers are also invited to attend the VolusonClub where you can relax, browse the internet, network with colleagues and discover new aspects in ultrasound.			
Bayside 104	 Conceive. Deliver.	 GE Healthcare		
	10:20 - 10:50 Non-Invasive Prenatal Test Panorama™: Technical Perspectives <i>A. Ryan (USA)</i>  14:00 - 14:30 Non-Invasive Prenatal Test Panorama™: Clinical Perspectives <i>M. Savage (USA)</i>	<b>Meet the Experts</b>  10:05 - 10:30 First Trimester Assessment <i>J. Hyett (Australia)</i>  15:20 - 15:50 Fetal Heart imaging with STIC technology <i>M. Kawataki (Japan)</i>		10:05 - 10:30 Cardiovascular colour Doppler imaging of fetus <i>R. Chaoui (Germany)</i>  12:15 - 12:45 Ultrasound imaging in Labour & Delivery <i>Y. Kamei (Japan)</i>  13:00 - 13:30 3D in Gynecology is necessary for all patients <i>B. Benacerraf (USA)</i>  15:05 - 15:30 High resolution imaging in 2nd and 3rd trimester scan <i>B. Benoit (Monaco)</i>
Bayside 202	 <b>Transforming Women's Healthcare, together</b>		 <b>Inspire the Next</b>	
	<b>STIC seminars (PC training)</b>		<b>STIC seminars (PC training)</b>	
	10:00 - 10:30 Expanding ultrasound to new users - VISIQ <i>S. Suresh</i>  10:20 - 10:50 Expanding ultrasound to new users - VISIQ <i>S. Suresh</i>  13:25 - 14:25 Philips Luncheon Symposium  15:50 - 16:20 Obstetrical imaging on the new EPIQ system <i>K. Kalache (Germany)</i>	10:00 - 10:30 Expanding ultrasound to new users - VISIQ <i>S. Suresh</i>  12:00 - 12:30 Obstetrical imaging on the new EPIQ system <i>K. Kalache (Germany)</i>  12:30 - 13:00 GI volume imaging on the new EPIQ system <i>S. Elliot</i>  13:00 - 13:30 Expanding ultrasound to new users - VISIQ <i>M.S. Ruma</i>  15:20 - 15:50 Clinical experiences with the new EPIQ system <i>Expert Panel</i>	10:05 - 10:30 Basic fetal echo 1, normal echo  12:15 - 13:45 Advanced fetal echo 1, abnormal 4CV  15:05 - 15:30 Advanced fetal echo 2, abnormal 4CV <i>M. Kawataki (Japan)</i>	10:05 - 10:30 Basic fetal echo 2, normal echo  12:30 - 14:00 Advanced fetal echo 3, abnormal outflow  15:20 - 15:50 Advanced fetal echo 4, abnormal outflow <i>M. Kawataki (Japan)</i>



## Hospitality suites & Satellite symposia

Room	Sunday 6 October	Monday 7 October	Tuesday 8 October	Wednesday 9 October
Bayside 203	 <b>SAMSUNG MEDISON</b>			
	10:20 - 10:50 The new wave of Women's healthcare  14:00 - 14:30 The new wave of Women's healthcare  15:50 - 16:20 Experienced Ultrasound is the key to predicting Endometriosis with live scanning <i>G. Condous (Australia)</i>	10:05 - 10:30 New solution for NT (1st trimester) and long bone (2nd trimester) <i>J.Y. Kwon (Korea)</i>  15:20 - 15:50 Best solution for fetal heart assessment <i>A. Weichert (Germany)</i>	10:05 - 10:30 Assessment fetal brain in 2nd trimester <i>R. Mogra (Australia)</i>  13:30 - 14:00 Best solution for fetal heart assessment <i>T. Ghi (Italy)</i>  15:05 - 15:30 Assessment fetal heart in 2nd trimester <i>R. Mogra (Australia)</i>	
Bayside 201	 <b>TOSHIBA</b> Leading Innovation >>>			
	10:20 - 10:50 New ways of assessing common elbow pathology  12:45 - 13:15 Ask the Expert: Ultrasound of the hip and ankle  15:20 - 15:50 Ask the Expert: Peripheral Nerve Ultrasound <i>S. Bird (Australia)</i>	12:45 - 13:15 2D Sonographic Evaluation of Fetal Orofacial Clefts <i>L. Wilhelm (Germany)</i>  15:20 - 15:50 Haemodynamics of the left ventricle at the 18 - 20 week scan <i>P. Murphy (Australia)</i>	10:00 - 10:30 The 12 Week Anatomy Scan <i>R. Savage (Australia)</i>	
<b>Satellite symposium</b>				
Bayside Auditorium A	 <b>PHILIPS</b> 13:25 - 14:25	 GE Healthcare 12:45 - 13:45	 <b>TOSHIBA</b> Leading Innovation >>> 12:40 - 13:40	 <b>SAMSUNG MEDISON</b> 12:45 - 13:45
	Transforming Women's Healthcare, together "The Power of nSIGHT and xMATRIX technology for clinical diagnosis" <i>S. Elliott</i>  How nSIGHT and xMATRIX benefit the obstetrical exam <i>M. Ruma</i>  "EPIQ experiences in Maternal Fetal Medicine" <i>K. Kalache (Germany)</i>	<i>B. Benoit (France)</i> <i>R. Chaoui (Germany)</i> <i>R. Pooh (Japan)</i>	Fly Thru Hysteroscopy <i>R. Mogra (Australia)</i>  Foetal Doppler for late onset growth restriction <i>J. Hyett (Australia)</i>  A closer look behind the obvious - New diagnostic tools for prenatal diagnosis of isolated cleft palate, analatresia and esophagusatresia <i>L. Wilhelm (Germany)</i>	Efficacy of progesterone in women with a short cervix; can elastography provide an objective evaluation of treatment efficacy? <i>J. Hyett (Australia)</i>  Advancements in the application of elastography in benign uterine disorders <i>W. Hehenkamp (Netherlands)</i>  Normal development of fetal cortical fissures: a longitudinal 3-dimensional ultrasound study <i>T. Ghi (Italy)</i>

## ISUOG meetings

Date	Start time	End time	Meeting (secretary)	Meeting room
<b>Saturday 5 October</b>	09:00	17:00	ISUOG Board	<i>Boardroom</i>
<b>Sunday 6 October</b>	08:00	08:30	Session Chair briefing	<i>Bayside Gallery B</i>
	13:30	14:30	Education Committee	<i>Bayside Terrace</i>
	15:00	16:00	Safety Committee	<i>Bayside 105</i>
	15:15	16:15	Journal Editors meeting	<i>Bayside Terrace</i>
	16:30	17:30	Clinical Standards Committee	<i>Bayside Terrace</i>
<b>Monday 7 October</b>	11:15	12:15	Membership Development Task Force	<i>Bayside Terrace</i>
	12:30	14:00	Editorial Board	<i>Bayside Terrace</i>
	14:00	15:30	Outreach Committee	<i>Bayside 105</i>
	15:30	16:30	CME Task Force	<i>Bayside Terrace</i>
	15:30	16:30	Gold Medal Committee	<i>Bayside 105</i>
	17:15	18:15	Bids Committee	<i>Bayside Terrace</i>
<b>Tuesday 8 October</b>	08:30	09:30	Perinatal Doppler Special Interest Group	<i>Bayside Terrace</i>
	09:30	10:30	Patient Information Group	<i>Bayside 105</i>
	09:30	10:30	Fetal MRI Special Interest Group	<i>Bayside Terrace</i>
	10:30	12:00	Scientific Committee	<i>Bayside Terrace</i>
	12:45	13:45	Young Investigator's Lunch	<i>Bayside Terrace</i>
	14:30	15:30	Education Committee 2	<i>Bayside 105</i>
	15:45	16:45	Fetal Heart Special Interest Group	<i>Bayside 105</i>
	17:15	18:15	Nominations Committee	<i>Bayside Terrace</i>
<b>Wednesday 9 October</b>	09:15	10:30	ISUOG Board (supplementary)	<i>Bayside Terrace</i>
	11:00	12:00	Barcelona Local Organising Committee	<i>Bayside Terrace</i>
	11:30	12:30	3D Special Interest Group	<i>Bayside 105</i>
	12:45	13:45	Exhibitor's closing meeting	<i>Bayside 105</i>

## ASUM meetings

Date	Start time	End time	Meeting (secretary)	Meeting room
<b>Sunday 6 October</b>	09:00	12:30	DMU Examiner Course	<i>Bayside 101</i>
	09:00	14:00	DMU Asia	<i>TBC</i>
	14:00	17:00	Outgoing Council Meeting	<i>Bayside 101</i>
<b>Monday 7 October</b>	10:30	11:00	ASUM AGM	<i>Bayside 102</i>
	11:30	12:30	AJUM Board	<i>Bayside 101</i>
	13:30	15:30	DDU Board	<i>Bayside 101</i>
	15:30	19:30	Incoming Council Meeting	<i>Bayside 101</i>
<b>Wednesday 9 October</b>	09:00	12:00	CCPU Board	<i>Bayside 101</i>
	14:00	15:00	Standards of Practice Board	<i>Bayside 101</i>



## 24th World Congress on Ultrasound in Obstetrics and Gynecology

14–17 September 2014, Barcelona, Spain

Save the date!

### Critical dates 2014

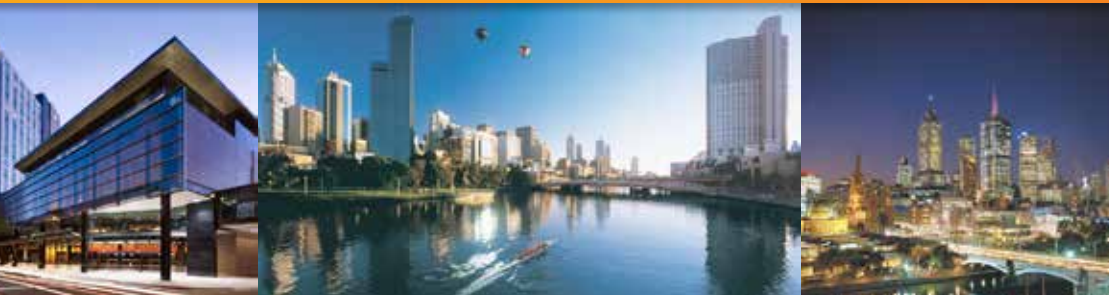
- January** Call for papers
- 14 April** Abstract submission and presenter registration deadline
- 14 July** Early bird registration deadline
- 14 September** Congress opens  
Pre-Congress courses, 13 September

Visit [isuog.org/worldcongress](http://isuog.org/worldcongress) for full details



## 44th Annual Scientific Meeting

AUSTRALASIAN SOCIETY FOR ULTRASOUND IN MEDICINE



17 – 19 OCTOBER 2014 • CROWN PROMENADE, MELBOURNE, VIC



### Key Dates

December 2013	Call for abstracts opens
January 2014	Registration opens
17 May 2014	Abstract submission deadline
17 August 2014	Early bird registration deadline
17 October 2014	Congress opens

FOR MORE INFORMATION: [www.asum.com.au](http://www.asum.com.au)

Organised by the International Society of Ultrasound in Obstetrics & Gynecology  
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