

TIVA-TCI 2011

3rd World Congress of
Total Intravenous Anaesthesia
& Target Controlled Infusion

Singapore, March 31 – April 2, 2011



FINAL PROGRAM

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3rd World Congress of Total Intravenous Anaesthesia & Target Controlled Infusion

Singapore

March 31 – April 2, 2011

Final Program

Congress Organizers

kenesinternational®

a Kenes Group® company



c/o Kenes International -
Global Congress Organizers and Association
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Table of Contents

Welcoming Words	5
Committees	6
World SIVA	7
About Singapore	8
Hotel Information	9
Acknowledgments	10
General Information	11
Instruction for Presenters	13
Poster Presentations	14
CME Accreditation	15
List of Exhibitors	16
Congress Floor Plan & Exhibition Map	17
Exhibitors' Profiles	18
Timetable	

Scientific Program

Thursday, March 31, 2011

Friday, April 1, 2011

Saturday, April 2, 2011

Poster Session, Friday, April 1 – Saturday, April 2, 2011

Index of Authors

Dear Colleagues,

The World Society of Intravenous Anaesthesia (WorldSIVA) is proud to announce its third international meeting on TIVA-TCI.

TIVA is defined as a method of inducing and maintaining general anaesthesia by using intravenously administered drugs. The primary implementation of this method involves administration with the use of TCI pumps. Target controlled infusion involves the use of a controlled syringe pump – which automatically regulates the rate of infusion of the drug. This method of anaesthesia has already been approved in Europe and Asia – which comes with the background of anaesthetic-related mortality rates – standing at approximately .01 percent in developed countries and between 1 and 10 percent in developing countries. (*WHO Guidelines for Safe Surgery 2009*).

The first two WorldSIVA meetings were held in Venice, Italy, in 2007 and in Berlin, Germany in 2009. Since then, there have been many exciting new developments in TIVA-TCI.

At the two previous congresses, over 600 professionals from diverse fields of anesthesia enjoyed a stimulating scientific and social program. We expect a similar number of participants at the Singapore Congress and an equally inspiring program. Updates on present evidenced-based research and medicine will be covered by world-renowned experts and there will be ample time for discussion during the workshops.

The scientific program is designed to meet the aims of WorldSIVA, which is "devoted to improving the standard of intravenous anaesthesia and intravenous anaesthesia delivery systems, including target and feedback controlled infusion technology"; it will consist of plenary sessions, topical workshops, oral and poster presentations.

This third congress in the series should yet again prove to promote the clinical application of existing knowledge and the acquisition of new knowledge by bringing together clinicians, scientists, and educators from around the world who practice, study, and teach intravenous anaesthetics.

As TIVA-TCI can be considered an autopilot method in the regulation of the application of anaesthetics – by working on its promotion – together we can develop a safer surgical environment. I greatly look forward to welcoming you to Singapore and to a very successful congress.



Professor Quirino Piacvoli, MD

President, WorldSIVA

Committees

WorldSIVA Executive Committee

President	Quirino Piacevoli, <i>Italy</i>
Vice President	Thomas Schnider, <i>Switzerland</i>
Past Vice Presidents (2007-2010)	Charles Minto, <i>Australia</i> Steven Shafer, <i>USA</i>
Secretary	Freddy Del Gaudio, <i>Italy</i>
Treasurer	Pedro Gambus, <i>Spain</i>

WorldSIVA Board

Anthony Absalom, *The Netherlands*
Freddy Del Gaudio, *Italy*
Pedro Gambus, *Spain*
Wolfgang Heinrichs, *Germany*
Michael Irwin, *China*
Tomiei Kazama, *Japan*
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Steven Green, *USA* - [Sedation Committee](#)
Keira Mason, *USA* – [Pediatric and Sedation Committee](#)
Charles Minto, *Australia* - [Open TCI Initiative](#)

About WorldSIVA

The World Society of Intravenous Anaesthesia is a scientific non-profit organisation devoted to improving the standard of intravenous anaesthesia and intravenous anaesthesia delivery systems, including target and feedback controlled infusion technology.

World SIVA promotes the clinical application of existing knowledge and the acquisition of new knowledge by bringing together clinicians, scientists and educators from around the world who practice, study and teach intravenous anaesthesia.

The aims of the World Society of Intravenous Anaesthesia are to:

- » Improve the standard of intravenous anaesthesia.
- » Improve intravenous anaesthesia delivery systems, including target controlled infusion (TCI) technology.
- » Promote the clinical application of existing and new knowledge in intravenous anaesthesia.
- » Promote scientific education in intravenous anaesthesia.
- » Bring together those who study and practice intravenous anaesthesia.
- » Develop and recommend safety and quality standards for intravenous anaesthesia.
- » Address any possible ethical problems associated with intravenous anaesthesia.
- » Establish an international network for the exchange of information and expertise about intravenous anaesthesia.
- » Provide and promote the information regarding opportunities for post graduate training and research in intravenous anaesthesia.
- » Promote or sponsor publications or periodicals concerning intravenous anaesthesia.
- » Arrange at regular intervals a World Congress in intravenous anaesthesia and to sponsor regional congresses and encourage meetings in this field.
- » Affiliate with other national and international scientific organisations active in all aspects of intravenous anaesthesia.

For more information and details on becoming a member, please visit: www.worldsiva.org

Welcome to Singapore

Some suggestions for attractions whilst you are here.

Main Attractions & Activities

- » The fashion emporiums of Orchard Rd.
- » The Raffles Hotel veranda
- » Antique shops in Chinatown
- » Diving with sharks at Underwater World on Sentosa
- » Mountain biking around Bukit Timah
- » Night Safari at the Singapore Zoo
- » Waterskiing or wakeboarding on the Kallang River
- » Go-carting and rock climbing
- » Bukit Timah Nature Reserve – large patches of rainforest in the center of Singapore

Singapore



2011

Hotel Information

The following are hotels affiliated with the Congress

Bay View Hotel

30 Bencoolen Street Singapore 189623

+(65) 6337 2882

Conrad Centennial Singapore

Two Temasek Boulevard, Singapore 038982

+(65) 6334 8888

Pan Pacific Hotel

7 Raffles Boulevard, Marina Square, Singapore 039595

+(65) 6336 8111

Park Royal On Beach Road

7500 Beach Road, Singapore 199591

+(65) 6505 5666

Peninsula Excelsior

5 Coleman Street, Singapore 179805

+(65) 6337 2200

Royal at Queens

12 Queen Street, Singapore 188553

+(65) 6725 9988

Swissotel Stamford

2 Stamford Road, Singapore 178882

+(65) 6338 8585

Acknowledgments

The Organizing Committee and WorldSIVA Board wish to express our gratitude to the following companies who, through their generosity, have helped to make this Congress possible:

Diamond sponsor



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Bronze sponsor



Sponsor



Exhibitor



Supported by



General Information

Venue

Suntec Singapore
International Convention & Exhibition Centre
1 Raffles Boulevard, Suntec City,
Singapore 039593
www.suntecsingapore.com
Tel: + (65) 6337 2888

Registration/Information/Sekretariat/ Accommodation Desks

Desks will be situated in the Foyer on Level 2 of the Suntec Singapore for the duration of the Congress at the following times:

Opening Hours

Thursday, March 31, 2011	13:00 – 20:30
Friday, April 1, 2011	07:30 – 18:30
Saturday, April 2, 2011	07:30 – 19:00

Participants Badge

Upon registering you will receive your congress kit in which you will find your name badge. You are kindly requested to wear your badge during all congress sessions and events.

Exhibition Opening Hours

Thursday, March 31, 2011	13:00 – 20:30
Friday, April 1, 2011	10:00 – 17:00
Saturday, April 2, 2011	10:00 – 19:00

Messages/Medical Assistance/Lost & Found

A notice board will be available in the registration area for messages and notifications. For all other issues, please approach the registration desk.

Language

The official language of the Congress is English - with selected sessions in Chinese and Korean.

Internet Stations

Free internet and email facilities are available in the exhibition area throughout the duration of the conference. Please be considerate of fellow participants when using these facilities.

Coffee Breaks

Will be served in the exhibition area according to the times in the scientific program.

Lunch

The Suntec Congress Centre is located next to the Suntec City Mall - where there are over 100 restaurants and cafés serving both local and western cuisine. Please see the mall's website for more details: www.sunteccitymall.com

Certificate of Attendance

The Certificate of Attendance will be available from Friday, April 1st at 13:30 for pick-up at the Registration Desk.

Smoking Policy

Smoking is prohibited at all times in the congress halls, exhibit halls and restrooms. Your compliance is appreciated.

Mobile Phones

Please note that mobile phones must be switched off during all sessions.

Congress Organisers and Secretariat



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Instructions For Presenters

Speakers' Ready Room - Oral Presentations

Data presentation

If using a PowerPoint (or any other computer) presentation, please note you need to bring it on a CD, a DVD or on a "disk on key" Memory stick (using the USB port in the computer) and load it on one of the congress' computers in the Speakers' Ready Room, at least 1 hour before the start of the session.

You may supply your own laptop computer as a back-up.

If combining video films with PowerPoint, please make sure to check it in the session hall where your lecture is taking place during a coffee or lunch break prior to your session, at least 30 minutes before the start of the session - even after checking it in the Speakers' Ready Room.

Please note that the congress' computers in the session halls are being supplied with Windows (the earliest version possible: XP) and Office (the earliest version possible: 2007).

Important note for Macintosh users

In order to use MAC presentations on a PC compatible computer please note that you need to prepare it according to the instructions below, before bringing it to the Speakers' Ready Room:

1. Use a common font, such as Arial, Times New Roman, Verdana etc. (special fonts might be changed to a default font on a PowerPoint based PC).
2. Insert pictures as JPG files (and not TIF, PNG or PICT - these images will not be visible on a PowerPoint based PC).
3. Use a common movie format, such as AVI, MPG and WMV (MOV files from QuickTime will not be visible on a PowerPoint based PC).

You may use your own Macintosh laptop computer. In such a case please confirm that it has a VGA socket for external signal and come to check it first in the Speakers' Ready Room as soon as you arrive and later on in the session hall where your lecture is taking place during the coffee or lunch break prior to your session, at least 30 minutes before the start of the session.

Please note that VHS Video projection, 35 mm' slide projection and Overhead projection (projection of transparencies) will not be available.

Poster Presenters

Please see the scientific program for the board number on which you should display your poster.

The poster presentations are an important part of the Scientific Program and an invaluable opportunity for the exchange of ideas and update on new research. The main opportunity for poster viewing and discussion is during breaks. Authors are requested to stand by their posters during the breaks on Friday, April 1 and Saturday, April 2 as follows:

Posters are to be mounted from Wednesday, March 30th at 15:00 until Saturday, April 2nd, 18:00.

Please remove your poster at the conclusion of sessions on Saturday, April 2. The Congress Organizers will not be responsible for posters that are not removed on time.

Poster Viewing

Posters are located in the Posters Hall. All posters will be on display on Friday, April 1st and Saturday, April 2nd.

CME Accreditation (EACCME)

The 3rd World Congress of Total Intravenous Anaesthesia & Target Controlled Infusion is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialist (UEMS), www.uems.net.

The 3rd World Congress of Total Intravenous Anaesthesia & Target Controlled Infusion is designated for a **maximum of 14 hours** of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

EACCME credits are recognized by the American Medical Association towards the Physician's Recognition Award (PRA). To convert EACCME credit to AMA PRA category 1 credit, contact the AMA.

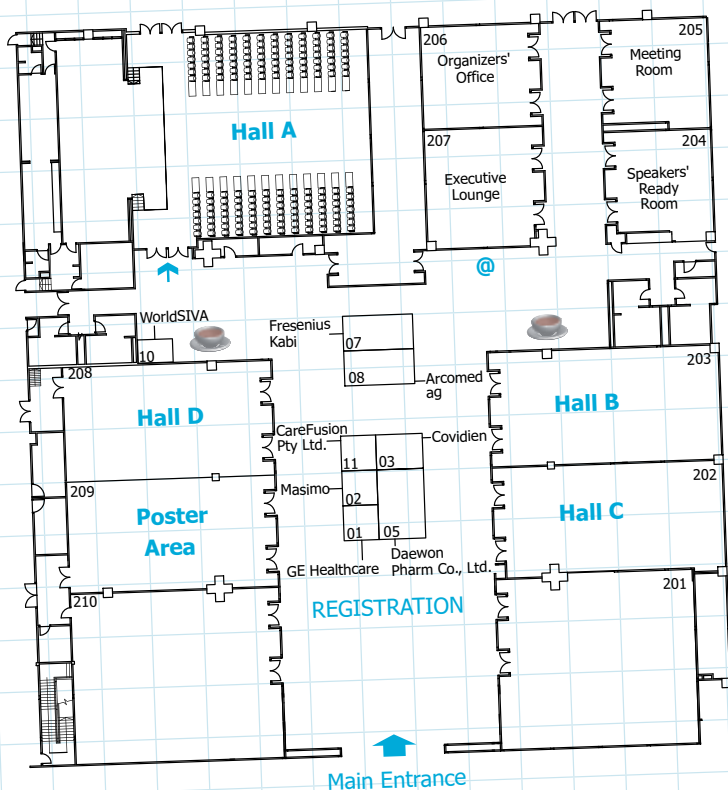
Poster Distribution

Topic	Board

List of Exhibitors

Exhibition	Booth
Arcomed	08
CareFusion	11
Covidien	03
Daewon	05
Fresenius Kabi	07
GE Healthcare	01
Masimo Asian Pacific	02
WorldSIVA	10

Congress Floor Plan and Exhibition Map



Exhibitors' Profiles

...likewise...

Scientific Program

Workshops	Social Events	Meet the Expert Sessions	Plenary lectures
Breaks	Sponsored Sessions	Sessions	Oral Presentations

Thursday, 31 March, 2011

13:00	Registration opens		
	Hall A	Hall B	Hall C
15:00 – 17:00	Workshop 1: Opioid Target Controlled Infusion for Beginners F. Sztark V. Billard (France)	Official Satellite Symposium: PK Basis of TCI Sponsored by Fresenius Kabi	Workshop 3: Hypnotic Opioid Interaction A. Del Gaudio (Italy)
17:30 – 19:00	Opening Ceremony F. Nuevo, The World Federation of Societies of Anaesthesiologists (Italy) A. Sia, Society of Anaesthesiology (Singapore) Q. Piacevoli, WorldSIVA (Italy)		
19:00 – Evening	Welcome Reception		

Friday, 1 April, 2011

	Hall A	Hall B
08:00 – 09:00	Meet the Expert Session 1: Open TCI Initiative C. Minto (Australia)	Meet the Expert Session 2: Monitoring Ventilation V. Billard (France)
09:00 – 10:30	Session 1: Patient Safety Chair: P. Barach (USA) 1. Assessing the Impact of Human Factors and Risk Management on Safe Sedation Practice. P. Barach (USA) 2. Does Cerebral Oximetry Improve Safety? M. Stabile (USA) 3. Technical Safety of TCI and TIVA T. Schnider (Switzerland) 4. Pro-Con Debate I: The Role of Double Checking and Checklists in Creating Safe Outcomes. Pro: C. Kindler (Switzerland) Con: P. Barach (USA) 5. Pro-Con Debate II: Are Sedation Outcomes Better in the Hands of Anaesthesiologists Than in the Hands of Non-Anaesthesiologists? Pro: M. Stabile (USA) Con: K. Mason (USA)	Workshop 4: Improving Patient Outcomes in the Operating Room: What Can We Do? 1. The Spectral Index Scale (BIS): Its Scientific Foundation, Practical Application, and Clinical Limitations. T. Egan (USA) 2. Intubation with Routine ET Tube: Couldn't We Do Better? Jan Poelaert (Belgium) Sponsored by Covidien
10:30 – 11:00:	Coffee Break, Poster Viewing and Exhibition	
11:00 – 12:30	Plenary Lecture 1 1. Clinical Pharmacology Development of Microemulsion Propofol G. Noh (Korea) 2. Technological Intensification in Anaesthesia and Surgery: The Issue of Complexity. M. Stabile (USA)	Session 4: Progress in Pharmacology Chairs: F. Servin (France) J.Liu (China) 1. Smart Pumps: A Minimum Safety Standard? L. Murdoch (UK) 2. Update on Front-End Kinetics and Semiphysiological Modelling. K. Masui (Japan) 3. Biochemical and Pharmacological Aspects of I.V. Anaesthetic E. Vincenti (Italy) 4. The Role of Orexinergic Neuron on Intravenous Anaesthesia T. Kushikata (Japan)
12:30 – 13:30:	Break, Poster Viewing and Exhibition	
13:30 – 14:30	Oral Presentations 1	Oral Presentations 2
14:30 – 16:00	Korean Workshop 7: Simulation of Target-Controlled Infusion using Asan Pump B.M. Choi (Korea)	Official Satellite Symposium: TCI in Clinical Practice F. Servin (France) M. Irwin (China) Sponsored by Fresenius Kabi
16:00 – 16:30:	Coffee Break, Poster Viewing and Exhibition	
16:30 – 18:00	Chinese Workshop 11: TCI in Clinical Practice M. Irwin (China) G. Wong (China) L. Sim (China)	Workshop 10: Target Controlled Infusion for Endoscopy T. Kazama (Japan)

Hall C

Meet the Expert Session

3: Antibiotics and TCI

P. Roncucci (Italy)

Session 2: Prescribing Help Tools in the O.R.

Chairs: V. Billard

(France), T. Gin (China)

1. Smart Pilot View. T. Gin (China)

2. Navigator. R. Kennedy (New Zealand)

3. Interest of PK Simulation in the OR in the Absence of TCI. Y. Sanjo (Japan)

4. Development of a Computer Program to Administer TIVA in Colombia
A. Vanegas (Colombia)

Hall D

Board Meeting Room

Session 3: ICU Session

Chairs: D. Ionescu

(Romania),

T. Takahashi (Japan)

1. A Comprehensive Review of Sedation Scoring Systems, Clinical Value and Validity

2. M. Ramsay (USA)

3. Sedation and Hemodynamic Effects. F. Guarracino (Italy)

4. TCI in the ICU: Practical Issues
F. Sztark (France)

5. Effects of I.V. Anaesthetics on the Immune Function in Sepsis
T. Takahashi (Japan)

Oral Presentations 3

Workshop 8: How to Use Simulation to Teach TIVA-TCI

W. Heinrichs (Germany)

Pre-Registration Required

Workshop 5: PKPD Tools

C. Minto (Australia)

T. Schnider (Switzerland)

Workshop fully booked

Workshop 9: How to Use Simulation to Teach TIVA-TCI

W. Heinrichs (Germany)

Pre-Registration Required

Workshop 5: PKPD Tools (Continued)

C. Minto (Australia)

T. Schnider (Switzerland)

Workshop fully booked



Hall A

08:00 – 09:00

Meet the Expert Session 4: Anesthesia for Digestive Endoscopy

P. Gambus (Spain)

09:00 – 10:30

**Session 5: Perioperative Analgesia
Chairs: A. Absalom (The Netherlands),
V. Billard (France)**

1. Ketamine: Why and How? A. Absalom (The Netherlands)
2. Opioids and Organ Protection. M. Irwin (China)
3. Remifentanyl-Induced Hyperalgesia. H.J. Lee (Korea)
4. How to Assess Analgesia during General Anaesthesia?
P. Mavroungou (France)

10:30 – 11:00: Coffee Break, Poster Viewing and Exhibition

11:00 – 12:30

Plenary Lecture 2

1. Neonatal Toxicity and I.V. Anaesthetics
1. Memory, Amnesia and Sedatives. J. Lerman (USA)

12:30 – 13:30

WorldSIVA General Assembly. Admission for WorldSIVA members only

13:30 – 14:30: Break, Poster Viewing and Exhibition

14:30 – 16:00

**Session 9: TCI - When the Models are Wrong
Chair: T. Schnider (Switzerland)**

1. Shock, Transfusion. T. Kazama (Japan)
2. Morbidly Obese. V. Billard (France)
3. Transfer to the Effect Site as a Function of Age. I. Constant (France)
4. Tips for Safe and Accurate Administration of Intravenous Agent. S. K. Min (Korea)

16:00 – 16:30: Coffee Break, Poster Viewing and Exhibition

16:30 – 18:00

**Session 12: Education
Chair: T. Egan (USA)**

1. Standardization of Adverse Event Reporting: A WorldSIVA Update. K. Mason (USA)
2. Simulation and Distance Based Learning for Sedation Training of Non-Anaesthesia Practitioners. T. Egan (USA)
3. Propofol Administration by Non-Anaesthesiologists
D. Carlson (USA)
4. Training Non-Anaesthesiologists to Deliver Sedation
E. Barbi (Italy)

18:00 – 18:30

Closing Ceremony and Prize Winners

Hall B

Meet the Expert Session 5: Closed Loop, Where are We?

A. Absalom (The Netherlands)

Session 6: Pediatrics I Chair: B. Koka (USA)

1. Opioid Analgesia in Pediatrics
G. Hammer (USA)
2. Opioids TCI. Z. MingZhang (China)
3. Sedation in Children and Young People: A UK National Guideline on Pediatric Sedation
M. Sury (UK)

Session 8: Regional Specificities Chair: D. Gozal (Israel)

1. Overview of Sedation Practices in European ICUs. R. Aantaa (Finland)
2. Sedation Guidelines from the U.S. and Europe: Are they Applicable to Asia and the Global Community? K.Mason (USA)
3. Innovations in Sedation in Asia
Y. Kaneko, T. Ichinohe (Japan)
4. TIVA /TCI in Eastern Europe
D. Ionescu (Romania)
5. Strategies, Challenges and Future in ICU Sedation in the Middle East
S. Haddad (Saudi Arabia)

Session 10: Pediatrics II Chair: K. Mason (USA)

1. TIVA vs. Inhalational Anaesthesia: A Practical Comparison. T. Egan (USA)
2. TIVA for Neonates? Are We Pushing the Age Boundaries? J. Lerman (USA)
3. Dexmedetomidine for Procedural Sedation Outside the Operating Room
K. Mason (USA)

Session 13: TIVA/TCI in Africa Chair: P. Mavoungou (France)

1. TIVA/TCI in Africa: Present and Future. P. Mavoungou (France)
2. TIVA in Cameroon. J. Ze-Mikande (Cameroon)
3. Interest and Implementation of TCI in Burundi. S. Majaliwa (Burundi)
4. Lidocaine in Acute Postoperative Pain in the Congo. P. Mawandza (Congo)

Hall C

Meet the Expert Session 6: Pediatrics

TIVA in the Operating Room: Agents, Challenges, Limitations and the Future.
V. Yuen (China), M. Sammartino (Italy), I. Constant (France)

Session 7: Adjuvant Drugs Chair: F. Del Gaudio (Italy), R. Muchada (Uruguay)

1. Human Simulation Emergency Training in Outpatient Anaesthesia: The American Dental Society of Anaesthesiology Experience
K. E. Crowley (USA)
2. Clonidine: Why and How
C. Gregoretti (Italy)
3. Magnesium: Why and How
F. Del Gaudio (Italy)
4. Awakened Anesthesia for Carotid Endarterectomy. Where are We 10 Years Later? R. Muchada (Uruguay)

Session 11: History of I.V. Anaesthesia. Chairs: D. Wilkinson (UK), J.B. Cazalaa (France)

1. Early Stages 1870. D. Wilkinson (UK)
2. Intravenous Anaesthesia: From Discovery (Pierre Cyprien Oré) to TCI. J. B. Cazalaa (France)
3. 1930 - 1997. F. Servin (France)
4. History of TCI. J. B. Glen (UK)

Session 14: New Drugs Chair: P. Gambus (Spain)

1. Propofol Formulations
P. Gambus (Spain)
2. I.V. Isoflurane Emulsion. J. Liu (China)
3. Etomidate: Will New Formulations Get it Out of Purgatory?
F. Servin (France)
4. Pharmacologic Actions of Orphanin (Nociceptin). H.S. Lee (Korea)



SCIENTIFIC PROGRAM

Thursday, March 31, 2011

Thursday

Friday

Saturday

Posters



SCIENTIFIC PROGRAM

Friday, April 1, 2011

Friday

Saturday

Posters



SCIENTIFIC PROGRAM

Saturday, April 2, 2011

Saturday

Posters



POSTER PRESENTATIONS

**Friday, April 1 -
Saturday, April 2, 2011**



**Australian Society of Anaesthetists
2011 National Scientific Congress
8–11 September 2011
Sydney Convention
and Exhibition Centre**

Over 100 concurrent lecture sessions, workshops and problem-based learning discussions.

The program will feature rigorous debate on controversies in anaesthesia and a strong focus on international speakers.

Located at iconic Darling Harbour, with views over the city and harbour and easy access to the best tourist destinations and accommodation that Sydney has to offer.

The theme of the meeting is “*Green and Growing*”.

www.asa2011.com





INDEX OF AUTHORS



