Echocardiography Today and Tomorrow

Advanced Echocardiography with Illustrative Case Studies

More than 150 Echo Case Studies
On site Satellite Sessions
Panel of Distinguished International Faculty

Workshop: Test Yourself
HOW GOOD IS YOUR ECHO KNOWLEDGE?
June 20 - 21, 2015

Main Symposium
June 22 - 26, 2015

Conference Center
ST. WOLFGANG (near Salzburg), Austria

Symposium Directors:
Natesa G. Pandian and H. Joachim Nesser

Web Home Page: www.cardiology.co.at

Conference Co-sponsored by the International Society of Cardiovascular Ultrasound

Abstracts on original research or clinical experience will be considered for poster presentation; the best abstracts will be published in the journal "Echocardiography"
Advanced Echocardiography
with Illustrative Case Studies

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Local - Organisation
Josef Aichinger Christian Ebner Wolfgang Tkalec
Elisabethinen - Hospital Linz

We want to thank the following companies who are partnering with us for this symposium

Abbott Vascular
Actelion Pharmaceuticals
BackBeatMedical
Bayer Austria
GE Medical Systems
Philips Healthcare

Siemens Healthcare
St. Jude
Takeda
TomTec Imaging Systems
Toshiba Medical Systems

We express our gratitude to the following companies for their enthusiastic participation in our symposium

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Guerbet
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Medtronic
Menarini
Novartis
Roche Diagnostics
Scannwork medical imaging GmbH
Signatis Pharma
## Faculty

### USA

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<td>Mankad Sunil</td>
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<td>Cobey Frederick</td>
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<td>Pandian Natesa G.</td>
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<td>Esposito Michele</td>
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<td>Gorcsan John</td>
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<td>Ramamurthi Alamelu</td>
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<td>Houle Helene</td>
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<td>Raney Aidan</td>
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<td>Kronzon Itzhak</td>
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<td>Kuvin Jeffrey</td>
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<td>Siegel Robert</td>
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<td>Lang Roberto M.</td>
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### EUROPE

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### Ecuador

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<td>Hurtado Iliana Samara</td>
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### JAPAN

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<td>Takeuchi Masaaki</td>
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### Pakistan

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### INDIA

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### MEXICO

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<td>Arias-Godinez Antonio</td>
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### UAE

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<td>Bartel Thomas</td>
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Saturday, June 20, 2015

Workshop

Test Yourself
“How Good Is Your Echo Knowledge?”

FACULTY
Gerard Aurigemma Luigi Badano Thomas Binder
Stefano Caselli Francesco Faletra Itzhak Kronzon
Sunil Mankad Alberto Milan H. Joachim Nesser
Petros Nihoyannopoulos Natesa G. Pandian Raphael Rosenheck
Robert Siegel Lissa Sugeng Jose Angel Urbano Moral

AM
9:00 Onwards – Registration

PM
12:15 Welcome
12:30 Session I
• Ultrasound Physics and Knobology
• 2D Echocardiography–Imaging Plan Issues
• Pulsed, CW and Color Doppler Technology
• Transesophageal Echocardiography Anatomy
• 3D Echocardiography, Tissue Doppler, Speckle Tracking
• Artifacts
3:00 Coffee Break
3:20 Session II
• Ventricular and Atrial Volumes and Function
• Ventricular and Atrial Hemodynamics
• Diastolic Function
4:20 Session III
• Mitral Stenosis, Aortic Stenosis, Tricuspid stenosis
• Mitral regurgitation, Aortic Regurgitation, Tricuspid Regurgitation
• Prosthetic Valves, Endocarditis
6:00 Adjourn
Sunday, June 21, 2015

**Session IV**
- Dilated Cardiomyopathy, Hypertrophic Cardiomyopathy
- Restrictive Cardiomyopathy, Arrhythmogenic Cardiomyopathy
- Rare Cardiomyopathies

**Coffee Break**

**Session V**
- Stress Echocardiography, Myocardial Infarction
- Advanced Heart Failure, Cardiogenic Shock

**Session VI**
- Aortic Diseases, Pericardial Pathology and Other Disorders

PM
1:00 Adjourn

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**After the Premeeting Workshop**

2:00 - 6:00 pm

Supported by
Actelion and Toshiba Medical Systems

International Hands - on Course
on Pulmonary Hypertension

Patients with different stages of pulmonary hypertension can be EXAMINED by PARTICIPANTS who registered for the combined package (Premeeting workshop plus main meeting). Under the guidance of tutors relevant echocardiographic techniques with regard to PH will be taught.

Due to restricted number of participants: First come - First served
AM
Monday, June 22, 2015

Welcome and Symposium Orientation
Drs. H. Joachim Nesser and Natesa G. Pandian

Session 1
Presiding: Dr. Natesa G. Pandian and Dr. Gerald Maurer

Let us start With a Quiz

Never-ending Lessons in Doppler (Case 1-5)
Dr. Natesa Pandian, Dr. Sunil Mankad and Dr. Itzhak Kronzon

Session 2

Ready for Prime Time? Technology Update

The Era of Strains - Proven Clinical Utility and Potential (Cases 6 - 8)
Dr. Gerard Aurigemma

3D Echo - New Methodologic Innovations (Cases 9 - 12)
Dr. Lissa Sugeng and Dr. Luigi Badano

In the Palm of My Hand (Cases 13 - 14)
Dr. Natesa Pandian

Fusion Imaging (Cases 15 - 16)
Dr. Itzhak Kronzon

Added value of Cardiac Magnetic Resonance after an Echo (Cases 17 - 18)
Dr. Petros Nihoyannopoulos

Coffee Break

Session 3
Presiding: Dr. Joachim Nesser and Dr. Robert Siegel

Transcutaneous Therapy for Valve Disease:
What is up in 2015?
(Supported by Abbott Vascular and Johnson & Johnson)

2D/3D Imaging of Aortic and Mitral Valves: Treatment Implications
Dr. Francesco Faletra

Imaging guidance for Transcutaneous Aortic Valve Replacement
Dr. Robert Siegel

Utility of intracardiac Echo for Percutaneous Therapy
Dr. Thomas Bartel
Monday, June 22, 2015

**PM**

12:15  
**Mitral Clips - State of the Art**  
*Dr. Oliver Gaemperli*

12:35  
**Percutaneous Mitral Valve Therapy Cases**  
*Dr. Christian Ebner*

12:55  
**Lunch Break**

**Session 4**  
*Presiding: Dr. Sunil Mankad and Dr. Petros Nihoyannopoulos*

2:20  
**Stenotic Valve Lesions - Not Always Easy (Cases 19-28)**  
Low EF Gradient Severe Aortic Stenosis; Low Flow Normal EF AS; Troublesome Moderate AS; AS and Aortic Dilation, Repair or Replacement, Mitral Stenosis, Degenerative MS, Uncommon Stenosis

*Presenters and Discussants:*
- Dr. Antonio Arias-Godinez  
- Dr. Luigi Badano  
- Dr. Sunil Mankad  
- Dr. Silvana Mueller  
- Dr. Raphael Rosenhek  
- Dr. Robert Siegel

3:20  
**Coffee Break**

**Session 5**  
*Presiding: Dr. Rekha Mankad and Dr. Ayan Patel*

4:00  
**Challenging Incompetency (Cases 29-37)**  
Functional Mitral Regurgitation; Flail/Prolapsing Mitral Valve; Fibrocalcific MR; MR of unusual cause; How to assess MR severity; Mechanisms behind Aortic Regurgitation; What to do with this Tricuspid Regurgitation; MR, AR and TR; Complex Regurgitation Cases; Guidelines and Clinical Reality

*Presenters and Discussants:*
- Luigi Badano  
- Dr. Leyla Elif Sade  
- Dr. Itzhak Kronzon  
- Dr. Rekha Mankad  
- Dr. Ayan Patel  
- Dr. Robert Siegel

5:00  
**Case of the Day Quiz**

**Colloquium 1**

5:30  
(Organized by AstraZeneca, CVRx distributed by Intervent, TomTec and Toshiba Medical Systems)

*Chairmen: Dr. H. Joachim Nesser and Dr. Natesa G. Pandian*

- **Importance of echocardiography in patients with NSTEMI**  
  *Dr. H. Joachim Nesser*
- **Baroreceptor stimulation: New treatment options for the therapy of resistant hypertension and NYHA III - HF patient**  
  *Dr. Thomas Sturmerger*
- **Strain for daily patient’s care: reproducible, comparable, low effort**  
  *Dr. Rolf Baumann*
- **Advances in cardiac ultrasound and point of care testing**  
  *Dr. H. Joachim Nesser*

**Case of the Day Quiz - Lottery**  
(supported by Thoshiba Medical Systems)

**Dinner Buffet**
**Session 6**  
*Presiding: Dr. Sunil Mankad and Dr. Lissa Sugeng*

8:00  
**Challenges in Catheter-based Therapies (Cases 38 - 42)**  
TAVR prosthesis sizing, Paravalvular Regurgitation, Mitral Annular Morphology/MV pathology, Complications and Dramas

*Presenters and Discussants:*

Dr. Luigi Badano  
Dr. Frederick Cobey  
Dr. Alain Delabays  
Dr. Raphael Rosenheck  
Dr. Robert Siegel  
Dr. H. Joachim Nesser

**Session 7**  
*Presiding: Dr. Natesa Pandian and Dr. Robert Siegel*

9:00  
**Mitral Valve Surgery (Cases 43 - 45)**  
Repair or Replacement? What Surgical Approach?  
A Duet Between Cardiologist and the Surgeon

*Dr. Pravin Shah and Dr. Aidan Raney*

**Session 8**  
*Presiding: Dr. Pravin Shah and Dr. Francesco Faletra*

9:45  
**Tricuspid Valve Disease - Poses its Own Problems**  
Tricuspid Regurgitation Spectrum, Repair or Replacement, Percutaneous Approach, Do Guidelines Help? (Cases 46 - 49)

*Presenters and Discussants:*

Dr. Antonio Arias-Godinez  
Dr. Sunil Mankad  
Dr. Aidan Raney  
Dr. Raphael Rosenheck

10:35  
**Coffee Break**

**Session 9**  
*Presiding: Dr. Raphael Rosenheck and Dr. John Gorcsan*

11:15  
**Other Major Valve Issues**  
Prosthetic Valve Complication, Endocarditis, Valve Disorders of Various Etiologies (Cases 50 - 56)

*Presenters and Discussants:*

Dr. Antonio Arias-Godinez  
Dr. Iliana Hurtado  
Dr. Sunil Mankad  
Dr. Valeria Milazzo  
Dr. Petros Nihoyannopoulos  
Dr. Alamelu Ramamurthi  
Dr. Lissa Sugeng

12:15  
**Lunch Break**
PM

Tuesday, June 23, 2015

Session 10
Presiding: Dr. Gerard Aurigemma and Dr. Masaaki Takeuchi

The ventricles I

Subclinical LV Dysfunction, Diastolic Dysfunction, New Descriptors (Cases 57 - 60)

Presenters and Discussants:
Dr. Gerald Aurigemma  Dr. John Gorcsan  Dr. Petros Nihoyannopoulos
Dr. Pravin Shah  Dr. Masaaki Takeuchi

Session 11
Presiding: Dr. Joachim Nesser

2:45
Stefano De Castro Memorial Oration
Athlete’s Heart
Speaker: Dr. Stefano Caselli

3:15 Coffee Break

Session 12
Presiding: Dr. Claudius Teupe and Dr. Leyla Elif Sade

The ventricles II

Cardiomyopathy Spectrum Other Than HCM: Sarcoidosis, Amyloidosis, Rheumatologic Disorders, Systemic Diseases, Cardio-Oncology (Cases 61 - 70)

Presenters and Discussants:
Dr. Leyla Elif Sade  Dr. Alberto Milan  Dr. Ayan Patel
Dr. Leyla Elif Sade  Dr. Masaaki Takeuchi  Dr. Claudius Teupe

5:20 Case of the Day Quiz

PM

Colloquium 2

5:30 (Organized by BackBeat Medical, Bayer Austria (unrestr. educat. grant) and Siemens Healthcare)
Chairmen: Dr. Luigi Badano and Dr. H. Joachim Nesser

Cardiology challenges in daily practice: patient-oriented solution
CTEPH: What to do if the surgeon says “NO”  Dr. Regina Steringer-Mascherbauer

7 years with NOACs - recent data on cardioversion  Dr. Johann Auer

A new exiting concept to reduce blood pressure based on pacemaker technology: what is it and how does it work?  Dr. H. Joachim Nesser  Dr. Thomas Sturmerger

Advancing 3D TEE: True 1 beat volume and automated quantification for structural heart disease  Helene Houle

A new paradigm in 4D Imaging  Dr. Lissa Sugeng

Case of the Day Quiz - Lottery  (supported by Thoshiba Medical Systems)

Dinner Buffet
Wednesday, June 24, 2015

Session 13
Presiding: Dr. Luigi Badano and Dr. Jose Angel Urbano Moral

8:00
Tips and Tricks –
Identifying the Hidden Problem and Differentiating Artifacts from Reality (Cases 71 - 76)

Presenters and Discussants:
Dr. Luigi Badano    Dr. Thomas Binder    Dr. Francesco Faletra
Dr. Itzhak Kronzon  Dr. Lissa Sugeng

Session 14
Presiding: Dr. Claudius Teupe and Dr. Gerald Maurer

The spectrum of HCM (Cases 77 - 82)

8:45
Echo profiles in HCM and Treatment Implications
Dr. Pravin Shah

9:05
Surgical Approaches to HCM
Dr. Aidan Raney

9:25
“Wait, there’s more..” - HCM spectrum

Presenters and Discussants:
Dr. Rabiya Malik    Dr. Maurizio Parato    Dr. Jose Angel Urbano Moral

10:00
Coffee Break

Session 15
Presiding: Dr. Eleonora Avenatti And Dr. Alberto Milan

10:40
More on Cardiomyopathies
LVNC, Dilated CMP, Restrictive CMP, ARVD, Myocarditis (Cases 83 - 88)

Presenters and Discussants:
Dr. John Gorcsan    Dr. Gerald Maurer    Dr. H. Joachim Nesser
Dr. Claudius Teupe    Dr. Jose Angel Urbano Moral

Session 16
Presiding: Dr. Natesa Pandian and Dr. Michele Esposito

11:30
Struggling Ventricles
Acute HF, Advanced HF, HF Interventions, LVAD, RVAD or BIVAD?
VAD in Trouble (Cases 89 - 95)

Presenters and Discussants:
Dr. Eleonora Avenatti    Dr. Michele Esposito    Dr. Petros Nihoyannopoulos
Dr. Natesa Pandian    Dr. Ayan Patel
**Wednesday, June 24, 2015**

**Session 17**

*Presiding: Dr. Joachim Nesser and Natesa Pandian*

12:30

**Innovations in Echo: The Last and Next 25 Years**

*Speaker: Bernhard Mumm*

1:00

**Jos Roelandt Memorial Oration**

**A Better Understanding of RV Remodeling**

*Speaker: Dr. Petros Nihoyannopoulos*

1:30

Lunch Break

2:00

Poster Session

5:00

Adjourn

8:00

**Dinner Buffet**

**Thursday, June 25, 2015**

**Session 18**

*Presiding: Dr. Alain Delabays and Dr. Valeria Milazzo*

8:30

**Aorta - Problems With the Big Tube**

*How big is big, Dissection, Intramural Hematoma, Aneurysm, Coarctation, Procedures, Penetrating Ulcer (Cases 96 - 101)*

*Presenters and Discussants:*

- Dr. Stefano Caselli
- Dr. Alain Delabays
- Dr. Itzhak Kronzon
- Dr. Roberto Lang
- Dr. Alberto Milan
- Dr. Urbano Moral

9:30

**Pericardial Disease: The Wrap and the Muscle**

*Tamponade, Atypical Tamponade; Constrictive Pericarditis, Fibrosis, Pericardial Cyst, Hematoma (Cases 102 - 107)*

*Presenters and Discussants:*

- Dr. Jeffrey Kuvin
- Dr. Rekha Mankad
- Dr. Valeria Milazzo
- Dr. Maurizio Parato
- Dr. Robert Siegel

10:30

Coffee Break
Thursday, June 25, 2015

Session 20
Presiding: Dr. Antonio Arias-Godinez and Dr. Claudius Teupe

11:10
The Stress(ed) Echo(cardiographer)
(Stress Echo Cases 108 - 115)

Presenters and Discussants:
Dr. Antonio Arias-Godinez       Dr. Mark Monaghan       Dr. Masaaki Takeuchi

Session 21
Presiding: Dr. Natesa Pandian

11:45
Just Questions and Answers

Panelists:
Dr. Itzhak Kronzon       Dr. Roberto Lang       Dr. Sunil Mankad       Dr. Mark Monaghan

PM
12:45
Lunch Break

Session 22
Presiding: Dr. Jeffrey Kuvin and Dr. Alamelu Ramamurthi

2:15
Adult Congenital Heart Disease (Cases 116 - 122)

Operated Then, What Do We Do Now?
Dr. Jeffrey Kuvin

Presenters and Discussants:
Dr. Antonio Arias-Godinez  Dr. Jeffrey Kuvin  Dr. Digambar Naik

3:15
Coffee Break

Session 23

4:00
Global Cardiology Quiz
Quiz Master: Dr. John Gorcsan

Competing Teams:
EUROPE
AMERICA
AUDIENCE

5:20
Case of the Day Quiz
Thursday, June 25, 2015

PM

Colloquium 3

5:30
(Organized by AstraZeneca, GE, Novartis, Philips Healthcare and St.Jude Medical)
Chairmen: Dr. Josef Aichinger and Dr. H. Joachim Nesser
Multipointpacing - Future of cardiac resynchronization therapy  Dr. Marianne Gwechenberger
Stroke prophylaxis - LAA Closure: Therapy of choice  Dr. Günter Stix
Is anatomical intelligence of ultrasound ready for the next big step?  Dr. Roberto Lang
Is there a substantial long term risk for patients after ACS?  Dr. Georg Delle-Kath
PARADIGM-HF Innovative treatment concept in chronic heart failure  Dr. Michael Böhm
Beyond visual wall motion assessment during stress echo  Dr. Luigi Badano
Case of the Day Quiz - Lottery (supported by Thoshiba Medical Systems)
Dinner Buffet

AM

Friday, June 26, 2015

Session 24
Presiding: Dr. Leyla Elif Sade and Dr. Mark Monaghan

Adult Ischemic Heart Disease

Acute Coronary Syndrome, MI Complications, Arrhythmias (Cases 123 - 128)

Presenters and Discussants:
Dr. Alain Delabays  Dr. Domenico Galcerano  Dr. Mark Monaghan
Dr. Petros Nihoyannopoulos  Dr. Bernardino Tuccillo

Session 25
Presiding: Dr. H. Joachim Nesser and Dr. Natesa Pandian

Audience Echo Case Study Competition

Session 26
Presiding: Dr. Natesa Pandian

“Get On With It” - More Doppler (Cases 129 - 133)

Presenters and Discussants:
Dr. Gerald Aurigemma  Dr. Roberto Lang

10:30 Coffee Break
Friday, June 26, 2015

Session 27
Presiding: Dr. Roberto Lang and Dr. Maurizio Parato

11:10
“Unwelcome guests.....”
Tumors, Tumor Mimics, Clots, Vegetations, Foreign Bodies, Value of Contrast (Cases 134 - 143)

Presenters and Discussants:
Dr. Antonio Arias-Godinez  Dr. Eleonora Avenatti  Dr. Leyla Elif Sade
Dr. Francesco Faletra  Dr. Alberto Milan  Dr. Alain Delabays
Dr. Biljana Razmova  Dr. Jose Angel Urbano Moral

PM
Session 21 – Lunch Colloquium
12:30 (supported by Actelion)
Case Stories in Right Heart Disease - from diagnosis to treatment
Dr. Thomas Binder

Session 28
Presiding: Dr. Roberto Lang and Dr. Stefano Caselli

2:00
Contrast to the Rescue: OR and ER Tales
(Cases 145 - 155)

Presenters and discussants:
Dr. Thomas Binder  Dr. Frederick Cobey  Dr. Alain Delabays
Dr. Iliana Hurtado  Dr. Itzhak Kronzon  Dr. Jeffrey Kuvin
Dr. Roberto Lang  Dr. Alberto Milan  Dr. Mark Monaghan

3:30 Coffee Break

Session 29
Presiding: Dr. Natesa Pandian and Dr. H. Joachim Nesser

4:00
Fascinating End-of-the-Conference Cases
(Cases 156 - 165)

Presenters and Discussants:
Dr. Eleonora Avenatti  Dr. Stefano Caselli  Dr. Francesco Faletra
Dr. Jeffrey Kuvin  Dr. Valeria Milazzo  Dr. Joachim Nesser
Dr. Natesa Pandian

Any Speaker Who Still Has Energy

5:30 Adjourn. Good Bye!
**General Information**

**Symposium Venue:**
Congress Center St. Wolfgang, Phone ++43-(0)6138-8008-20, Fax ++43-(0)6138-203004  
Hotel Scalaria (Exhibition area) Phone ++43-(0)6138-8000, Fax ++43-(0)6138-8080

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**Co - Organisation:**

MAW (Medizinische Ausstellungs- und Werbegesellschaft, Maria Rodler & Co. Ges.m.b.H.  
Engerthstrasse 128, A-1200 Wien; Phone +43(0)1 536 63-32  
e-mail: sonja.chmella@media.co.at

**Official Opening Hours:**
Saturday 20th 9:00 am – 1:00 pm, Sunday 21st 8:00 am – 12:00 pm and 5:00 pm – 6:30 pm,  
Monday 22nd 7:30 am – 5:00 pm, Tuesday 23rd and Thursday 25th 8:00 am – 5:00 pm,  
Wednesday 24th and Friday 21st 8:00 – 10:00 am

**Exhibition area** (at the “Hotel Scalaria” opposite the Conference Center);  
9:00 am until 5:00 pm (Wednesday until 1:00 pm) from Monday June 22nd to Friday June 26th

**Registration Fee:**

Symposium (June 17 - 21, 2013)  
Euro 600,–  

Workshop: Test Yourself “HOW GOOD IS YOUR ECHO KNOWLEDGE”  
Euro 250,–  

Combined Package  
Euro 650,–

**Registration fee for participants includes:**

- Access to all scientific events
- Lunch at the exhibition area
- Coffee/tea during breaks
- Dinner buffets

**Registration procedure:** All registrations must be made on the registration form.  
Deadline for registration: Credit Cards & Banktransfer - June 12th, 2015

After this date only on site payment possible, nevertheless send the registration form.  

Payment procedures: see the registration form.

**Registration desk at the congress:** All congress documents and access badges will be handed over to the registered participants at the registration desks.
Call for Abstracts and Informations for Authors
Abstracts can be submitted online to our homepage: www.cardiology.co.at (Registration side)
OR send the abstract (Word-document) as attachment with e@mail to the Symposium Secretary.
Deadline for submission of abstracts: June 12th, 2015
Abstracts, in English only, may be submitted for poster presentation. The best Abstracts will be published in the journal „Echocardiography“.

Technical Equipment for posters: Size: 110 cm in width and 90cm in length
Pins and adhesive material will be provided. Please use letters large enough to be read from 1.5 meters distance. Poster viewing will be possible during coffee and lunch breaks. Authors of posters will receive detailed information about mounting and removal times together with the letter of acceptance.

Hotel Accommodation:
Rooms are available in all price categories. Some hotels are located in short walking distance to the Conference Center. Nevertheless early room reservation is recommended.

For further informations and hotel reservation please contact:
Agency Pro Travel:
(Mr. Haberl): Phone ++43-(0)61 38-25 25; Fax ++43-(0)61 38-30 54, e-mail: protravel@st-wolfgang.at
homepage: www.protravel.at

Guest activities:
There are a lot of local events (e.g. concerts, operetta, folklore evening,) and sporting possibilities (e.g. tennis, squash, golf, canyoning, hot air ballooning, keep fit training area, climbing, watersports …)
For detailed informations call Kurdirektion St.Wolfgang.

Travel to St. Wolfgang
Air transport: arrival at airport Salzburg or Munich. From Salzburg airport there is a shuttle bus service to the main train station (bus No. 77).
By car: motorway A1 („Westautobahn“) – see the graph.
By train: to Salzburg main train station (than take the bus).
By bus: from the main train station take busses to “St.Wolfgang” – you have to change in Strobl.
Price approx Euro 10.--

For individual shuttle service please contact the Pro Travel agency. (see above)!