

# EUROECHO 2011

& other Imaging Modalities

The International Congress on Echocardiography and Non-Invasive Cardiovascular Imaging



HUNGARY  
**Budapest**

7-10 December 2011

## ADVANCE PROGRAMME

The fifteenth Annual Meeting of the European Association of Echocardiography, a Registered Branch of the ESC,  
in cooperation with the Working Group on Echocardiography of the Hungarian Society of Cardiology

[www.euroecho.org](http://www.euroecho.org)



EUROPEAN  
ASSOCIATION OF  
Echocardiography  
A Registered Branch of the ESC



EUROPEAN  
SOCIETY OF  
CARDIOLOGY®

## WELCOME ADDRESS



Dear Friends and Colleagues,

December is the month we have come to associate not only with Christmas, but also with one of the greatest educational and scientific meetings on non-invasive cardiovascular diagnosis worldwide. EUROECHO, the annual meeting of the European Association of Echocardiography (EAE), a registered branch of the European Society of Cardiology (ESC), will be held in the fascinating city of Budapest, Hungary, from 7-10 December 2011.

The main themes of EUROECHO 2011 will be **valvular heart disease** and **left ventricular function**. There will be joint sessions with the ESC Associations and Working Groups, as well as EACTA, AEPC, and the American Society of Echocardiography (ASE). In addition, we have further strengthened our successful links with the ESC Working Groups on Cardiovascular Magnetic Resonance, Nuclear Cardiology and cardiac CT, and Computers in Cardiology with the aim of providing a wider spectrum of multimodality non-invasive assessment of the various cardiovascular conditions.

The usual symposia, satellite sessions, Imaging Campus, advanced teaching courses, and the more general educational course on echocardiography will contribute to providing attendees with a unique opportunity for in-depth education about non-invasive imaging of cardiovascular diseases. However, this congress is not only about education. The core of EUROECHO is the presentation of original research and therefore we encourage you and your fellows to submit the results of your scientific studies to be selected for oral abstract sessions, poster sessions or to compete in the Young Investigators Award.

EUROECHO is not only science, it is a unique opportunity to meet the greatest experts on cardiovascular diagnosis in the world, to exchange ideas with colleagues with the same professional interest coming from all over the world, and to visit one of the largest exhibitions on cardiovascular imaging and related products.

You will be visiting Budapest, one of Europe's most delightful and enjoyable cities. Thanks to its perfect location, Hungarian hospitality and memorable monuments, it has been called the "Little Paris of Central Europe" and the "Pearl of Danube". We are sure you will enjoy discovering it.

We look forward to seeing you there.

**Doctor Luigi P. Badano**

*EAE President 2010-2012*

## EUROECHO 2011 COMMITTEES

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*...we look forward to seeing you in Budapest!*



## SCIENTIFIC PROGRAMME

**EUROECHO & other Imaging Modalities**, the Annual meeting of the European Association of Echocardiography, has doubled in size and impact over the last few years to become one of **the largest and most important scientific meetings** on non-invasive cardiovascular diagnosis anywhere in the world.

EAE is a registered branch of the European Society of Cardiology (ESC). Its mission is to promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular ultrasound in Europe.

### 2011 Main Themes:

Explore **Valvular Heart Disease & Left Ventricular Function** as well as more on Echocardiography, more on other Imaging Modalities - a track dedicated to Congenital Heart Disease in collaboration with GUCH and AEPC, more Clinical sessions as well as a complete educational curriculum.

### NEW THIS YEAR!

#### Clinical Imaging Sessions:

Patient-oriented, Case-based: In each session, the lectures address specific related topics starting with, and based on, a practical case illustration. The session-concluding lecture and discussion will be oriented on decision making, therapeutic options and management, including pharmaceutical and devices/surgery options.

#### Clinical Pathways Sessions:

Lecture about the state of the art of the topic followed by challenging cases read with the experts.

#### ECHO at JEOPARDY:

ECHO game session to learn and truly enjoy at the same time...

#### The best in 2011 in Valve Disease:

A session coordinated by EAE young researchers who will present their extensive research on what has been presented in 2011 on Valve Disease.

#### Controversies Sessions / Debates:

Come and listen to Key Opinion Leaders debate on Perfusion contrast echocardiography - Emergency echo - Heart valve disease.

#### Wednesday Teaching course:

Subsequent educational sessions to explore a topic in depth.

- Mitral valve disease - from diagnosis to treatment, new prospects: course organised by the Hungarian Working Group of echocardiography
- Aortic valve and Aorta
- Contrast echocardiography
- Clinical application of 3D echo
- When and why to use Transesophageal Echocardiography in decision making: course organised jointly with EACTA
- Congenital heart disease in adult: course organised with GUCH/EAPC
- Cardiac function and mechanics: course organised with the American Society of Echocardiography

#### Imaging Campus:

Designed to offer delegates a unique opportunity for practical training and/or hands-on learning experience in key areas of non invasive imaging with specific objectives and credit approval.

On line reservation on [www.euroecho.org](http://www.euroecho.org)



**A dynamic abstract-based programme!**

**CALL for Original Scientific Contributions**

**Abstract Submission Deadline**  
**31 May 2011**

[www.euroecho.org](http://www.euroecho.org)

**Because Researchers are at the starting point of advances...**

*We are committed to providing a great platform for original scientific contribution through a dedicated abstract-based programme.*



Prof P. Lancellotti  
Chairperson  
Programme Committee

*This is the part where our community truly comes together around research submitted and presented in dedicated sessions to Faculty, Colleagues and Peers...*

*In keeping with our congress expanded horizons, the submission topic list has been adapted to encompass other Imaging Modalities Topics and welcome contributions from more fields of research.*

**Oral Abstract Session:** Present your research to a dedicated audience in front of two chairpersons. Abstract Presentation certificates will be awarded at the end of the session.

**Moderated Poster Session:** Display your research in a poster format and present it to an appointed moderator in front of the audience in 5 minutes ...

**Poster Session:** Display your research in a poster format – Meet colleagues and peers who share same topics of interest/research.

**Special focus on Young Researchers** with our Poster mentor programme.

**Because Research is the foundation of scientific programmes...**

# CONGRESS TIMETABLE

	Tuesday 6 December	Wednesday 7 December	Thursday 8 December	Friday 9 December	Saturday 10 December	
07:30						07:30
08:00						08:00
08:30						08:30
09:00						09:00
09:30		TEACHING COURSES	SESSIONS	SESSIONS	SESSIONS	09:30
10:00			MODERATED POSTERS	MODERATED POSTERS	MODERATED POSTERS	10:00
10:30						10:30
11:00						11:00
11:30		TEACHING COURSES	SESSIONS	SESSIONS	SESSIONS	11:30
12:00						12:00
12:30						12:30
13:00		SATELLITE SYMPOSIA	SATELLITE SYMPOSIA	SATELLITE SYMPOSIA		13:00
13:30			Young Investigator Award			13:30
14:00		TEACHING COURSES	SESSIONS	SESSIONS	SESSIONS	14:00
14:30			MODERATED POSTERS	MODERATED POSTERS	MODERATED POSTERS	14:30
15:00	REGISTRATION					15:00
15:30						15:30
16:00		OPENING CEREMONY	SESSIONS	SESSIONS	SESSIONS	16:00
16:30			MODERATED POSTERS	MODERATED POSTERS	MODERATED POSTERS	16:30
17:00		OPENING COCKTAIL	SESSIONS	SESSIONS	SESSIONS	17:00
17:30						17:30
18:00						18:00
18:30						18:30
19:00			SATELLITE SYMPOSIA			19:00
19:30						19:30
20:00						20:00

**New interactive tool!** Consult the **Final Programme on the Go** in both traditional browser and mobile device version and select your preferred abstracts / sessions / topics from November on [www.euroecho.org](http://www.euroecho.org)



## EUROPEAN ASSOCIATION OF ECHOCARDIOGRAPHY (EAE) ACTIVITIES:

### EAE/ESC stand

Learn more about EAE activities including:

- Membership
- Accreditation and certification
- Educational opportunities
- Journal
- Congress
- **Club 35 Young doctors' initiatives (NEW)**



Get information on all ESC scientific services and products such as journals, educational activities and the ESC Congress to be held in Munich in 2012. Come and visit us on the EAE/ESC stand in the Exhibition Area.

### NEW! EAE Membership advantages during EUROECHO

All EAE Members 2011 & 2012 will benefit from the following services on-site in Budapest:

- Discount on congress registration & exams
- Exclusive EAE Members Lounge access
- EAE Membership Services desk
- Special EAE Member congress bag



**Not yet an EAE member?**

**Join now at: [www.escardio.org/EAE](http://www.escardio.org/EAE)**

### Opening Ceremony:

The opening session will take place on Wednesday 7 December from 16:30-18:00, featuring the EDLER Lecture and Award ceremony. It will be followed by a cocktail reception in the Exhibition.

### EAE General Assembly

**Don't miss** the EAE General Assembly where you can meet the EAE Board members 2010-2012 and obtain the report on the EAE committees.

All participants are encouraged to attend.

### EAE Certification Exams

Take advantage of your presence at EUROECHO & other Imaging Modalities to sit one of the certification exams organised by EAE:



- Accreditation in Adult Transthoracic Echocardiography (TTE)
- Accreditation in Adult Transesophageal Echocardiography (TEE)
- Accreditation in Congenital Heart Disease Echocardiography (CHD)

Registration conditions, enrolment form and exam dates can be found on the EAE Web Site: [www.escardio.org/EAE](http://www.escardio.org/EAE), section "Certification/Accreditation"

**EAE Mission "To promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular ultrasound and other imaging modalities in Europe"**

# WEDNESDAY 7 DECEMBER TEACHING COURSE CURRICULUM

	Course organised by the Hungarian Working Group on Echocardiography	Course on aortic valve and aorta organised with the ESC Working Group on Nuclear Cardiology & Cardiac CT	Course on contrast echocardiography	Course on when and why using transoesophageal echocardiography in decision making organised jointly with the European Association of Cardiothoracic Anaesthesiologists (EACTA)	Course on clinical application of 3D echocardiography	Course on cardiac function and mechanics organised jointly with the American Society of Echocardiography	Course on congenital heart disease in the adult organised by the ESC Working Group on Grown-up Congenital Heart Disease
	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7
09:00	<b>Diagnosis of mitral valve disease</b>	<b>The aortic valve</b>	<b>Basics and instrumentation</b>	<b>Transoesophageal echocardiography and decision making in valve surgery (part 1)</b>	<b>Getting started with 3D echocardiography</b>	<b>Systolic function and ejection</b>	<b>Imaging of aorta</b>
	<ul style="list-style-type: none"> <li>Echocardiographic aspects of mitral valve anatomy.</li> <li>Echocardiographic evaluation of mitral stenosis.</li> <li>Quantification and dynamic properties of mitral regurgitation.</li> <li>Assessment of mitral regurgitation. What can 3D add?</li> <li>Case presentation - Mitral stenosis.</li> </ul>	<ul style="list-style-type: none"> <li>How to evaluate the regurgitant aortic valve by echo for possible reconstruction.</li> <li>Reconstructive aortic valve surgery - What does the surgeon need to know?</li> <li>Echo pitfalls in aortic stenosis: how to do it right.</li> <li>Computed tomography pitfalls in aortic valve disease: how to do it right.</li> <li>Evaluation of the aortic prosthetic valve: pitfalls and difficult cases.</li> </ul>	<ul style="list-style-type: none"> <li>Interaction between microbubbles and ultrasound.</li> <li>Physiology of microcirculation and principles of myocardial contrast echocardiography.</li> <li>Imaging settings and protocols for contrast echocardiography.</li> <li>Is the safety of contrast agents a concern?</li> </ul>	<ul style="list-style-type: none"> <li>Comprehensive 2D and 3D TEE assessment of the mitral and aortic valve.</li> <li>TEE criteria to guide surgical repair or replacement of a regurgitant mitral valve.</li> <li>Intraoperative evaluation of the surgical result in mitral valve repair.</li> <li>Role of TEE in diagnosis and surgical decision making in endocarditis.</li> </ul>	<ul style="list-style-type: none"> <li>How to acquire a 3D dataset and basic cropping techniques.</li> <li>3D Echo and anatomical correlates - Navigate around the heart.</li> <li>3D assessment of global left ventricular function.</li> <li>Basic 3D assessment of the right ventricle and left atrium.</li> </ul>	<ul style="list-style-type: none"> <li>How does the heart pump? From sarcomere to ejection volume.</li> <li>Quantifying ventricular function: why do we need to go beyond ejection fraction?</li> <li>Stressing the ventricle - What happens and how can we detect it?</li> <li>Illustrative clinical cases: how to detect subtle changes in systolic function?</li> </ul>	<ul style="list-style-type: none"> <li>Marfan syndrome and fibrillin gene mutations.</li> <li>William's syndrome and elastin gene mutations.</li> <li>Bicuspid aortic valve: only valvular disease?</li> <li>Coarctation of aorta: between imaging and treatment.</li> </ul>
10:30 - 11:00	Visit the Exhibition hall						
11:00	<b>Difficult clinical and echocardiographical scenarios</b>	<b>The aorta</b>	<b>How to assess</b>	<b>Transoesophageal echocardiography and decision making in valve surgery (part 2)</b>	<b>Bread &amp; butter uses of 3D Echo - How and why to use it everyday</b>	<b>Diastolic function and filling</b>	<b>Functionally single ventricle</b>
	<ul style="list-style-type: none"> <li>Ischemic mitral regurgitation.</li> <li>Functional mitral regurgitation - Medical or surgical treatment?</li> <li>Mitral valve endocarditis: the role of echo in the decision making process.</li> <li>Congenital mitral valve disease.</li> <li>Case presentation - Mitral regurgitation.</li> </ul>	<ul style="list-style-type: none"> <li>Acute aortic dissection and intramural hematoma: how and when to use CT and MRI.</li> <li>Follow-up of aortic dissection: how, how often and which consequences?</li> <li>EAE recommendations: how to evaluate the aorta.</li> <li>Pitfalls and difficult cases in evaluating the aorta by echo.</li> </ul>	<ul style="list-style-type: none"> <li>Left ventricular structure and function.</li> <li>Myocardial ischemia.</li> <li>Myocardial viability.</li> <li>Any other clinical scenarios for contrast echocardiography?</li> </ul>	<ul style="list-style-type: none"> <li>Role of TEE to assess feasibility of aortic valve/root repair.</li> <li>Intraoperative evaluation of the surgical result in aortic valve/root repair.</li> <li>Role of TEE in diagnosis management of aortic dissection.</li> <li>Significance of pressure gradients across prosthetic valves in the operating theatre.</li> </ul>	<ul style="list-style-type: none"> <li>Gold standard (3D echo) assessment of the mitral valve.</li> <li>What does 3D echo add to evaluation of the aortic valve.</li> <li>3D echo assessment of right sided valves.</li> <li>Why you cannot examine congenital heart disease without 3D echo.</li> </ul>	<ul style="list-style-type: none"> <li>How does the ventricle fill? From active relaxation to atrial contraction.</li> <li>From ejection to filling and back again: is diastole independent from systole?</li> <li>What about the right heart?</li> <li>Illustrative clinical cases: why should we always integrate cardiac mechanics and hemodynamic in diastolic function assessment?</li> </ul>	<ul style="list-style-type: none"> <li>Morphological determinants.</li> <li>Imaging in Fontan staged palliation.</li> <li>Bicuspid Ventricular function univentricular hearts: what to measure?</li> <li>Post-Fontan follow up.</li> </ul>
12:30 - 14:00	Visit the Exhibition hall / Satellite Symposia						
14:00	<b>Echocardiography and interventions</b>	<b>Aortic and aortic valve interventions</b>	<b>New applications</b>	<b>Transoesophageal echocardiography in heart failure</b>	<b>Advanced applications of 3D Echo</b>	<b>Valve diseases</b>	<b>Imaging of right AV valve in congenital heart disease</b>
	<ul style="list-style-type: none"> <li>What would the surgeon like to know from the echocardiographer about mitral regurgitation?</li> <li>Intraoperative monitoring of mitral valve repair.</li> <li>Percutaneous interventions in mitral valve disease.</li> <li>The role of echocardiography following mitral valve procedures.</li> <li>Case presentation - Percutaneous intervention guided by echo.</li> </ul>	<ul style="list-style-type: none"> <li>Current state of the art of TAVI.</li> <li>Role of echocardiography in TAVI.</li> <li>CT analysis of aorta and aortic root before TAVI.</li> <li>Imaging techniques in endovascular aortic repair.</li> <li>The Marfan patient: follow-up and decision making.</li> </ul>	<ul style="list-style-type: none"> <li>Fundamentals of molecular imaging using contrast echocardiography.</li> <li>Stem cell and gene therapy.</li> <li>Plaque vulnerability.</li> <li>Coronary thrombolysis.</li> </ul>	<ul style="list-style-type: none"> <li>Intraoperative assessment of LV function: what should we measure.</li> <li>How to handle concomitant tricuspid valve insufficiency - The role of TEE</li> <li>Role of TEE in the management of ischemic mitral regurgitation.</li> <li>Role of TEE in managing post operative complication.</li> </ul>	<ul style="list-style-type: none"> <li>Assessment of 3D Strain.</li> <li>Regional left ventricular function and dyssynchrony.</li> <li>3D Stress echocardiography.</li> <li>The vital role of 3D in guiding cardiac interventions.</li> </ul>	<ul style="list-style-type: none"> <li>Cardiac mechanics in pressure overload and hypertrophic ventricles - Focus on aortic stenosis.</li> <li>Cardiac mechanics in volume overload and dilated ventricles - Focus on valve regurgitations.</li> <li>Atrial function in valve disease: is size all that matters?</li> <li>Illustrative clinical cases: what can deformation add to the assessment of valve diseases?</li> </ul>	<ul style="list-style-type: none"> <li>Ebstein anomaly: echocardiographic assessment.</li> <li>The tricuspid valve in functionally single ventricle: why does it leak?</li> <li>The tricuspid valve in pulmonary hypertension.</li> </ul>
15:30	16:00 - 17:30 - Opening Ceremony including the EDLER Lecture & Award Presentation in ROOM 1						
	17:30 - 19:00 - Opening Cocktail in the exhibition area						

# THURSDAY 8 DECEMBER MORNING

	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7
	MAIN SESSION	CLINICAL IMAGING	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	TEACHING COURSE	ABSTRACTS
08:30	<p><b>Management of aortic stenosis</b></p> <ul style="list-style-type: none"> <li>• Severe aortic stenosis: definition, prevalence and outcome in 2011.</li> <li>• Usefulness of other imaging techniques.</li> <li>• Risk stratification in asymptomatic patients.</li> <li>• Added value for biomarkers?</li> </ul>	<p><b>Atrial fibrillation</b></p> <p><b>Joint session with the European Heart Rhythm Association</b></p> <ul style="list-style-type: none"> <li>• Thromboembolism risk assessment by echo.</li> <li>• Advanced imaging of the left atrium (Strain/CT/3D/MRI).</li> <li>• Imaging-oriented therapeutic option.</li> <li>• Update in atrial fibrillation treatment.</li> </ul>	<p><b>How to stratify the risk in cardiomyopathies</b></p> <ul style="list-style-type: none"> <li>• Risk prediction by echocardiography in hypertrophic cardiomyopathy.</li> <li>• Myocardial dysfunction in patients with long QT syndrome - The link to arrhythmias?</li> <li>• Pitfalls in screening of athletes.</li> <li>• What can we do to prevent sudden death in patients with cardiomyopathies.</li> </ul>	<p><b>Multimodality imaging in structural heart disease</b></p> <p><b>Joint session with the ESC WG on CMR and the ESC WG on Grown-up Congenital Heart Disease</b></p> <ul style="list-style-type: none"> <li>• Left ventricular mechanics: what have we learned?</li> <li>• Borderline left ventricle: does size matter?</li> <li>• MRI in borderline left ventricle.</li> <li>• Damaged left ventricle in chronic heart disease.</li> </ul>	<p><b>3D strain evaluation: ready for clinical testing?</b></p> <ul style="list-style-type: none"> <li>• Different approaches to measure myocardial deformation in 3D.</li> <li>• Experimental validation of different 3D strain methods against sonomicrometry.</li> <li>• 3D strain estimation by ultrasound vs. MRI delayed enhancement in infarct patients.</li> <li>• 3D strain by ultrasound: limitation and reproducibility.</li> </ul>	<p><b>Basics of cardiac ultrasound</b></p> <ul style="list-style-type: none"> <li>• Essentials for ultrasound: physics, instrumentation, settings.</li> <li>• Principles of Doppler echocardiography.</li> <li>• The complete standard examination.</li> <li>• Quality control in the echo-lab.</li> </ul>	<p><b>Oral Abstract Sessions</b></p> <p><b>Submit your abstract before 31 May 2011</b></p> <p><b>The opportunity to present your research in front of a dedicated audience.</b></p>
10:00	Coffee Break - Exhibition - Moderated Posters Session & Poster viewing						
11:00	<p><b>Myocardial fibrosis - Contributor to cardiac dysfunction</b></p> <p><b>Joint session with the ESC Working Group on CMR</b></p> <ul style="list-style-type: none"> <li>• The normal role of fibroblasts in the heart.</li> <li>• When fibroblasts turn nasty.</li> <li>• Visualizing fibrosis in dilated and hypertrophic cardiomyopathy.</li> <li>• Evaluation of the effect of fibrosis on myocardial function in valve disease.</li> <li>• Prognostic implications of fibrosis in infiltrative heart disease.</li> </ul>	<p><b>Aortic valve regurgitation</b></p> <p><b>Joint session with the ESC Working Group on Valvular Heart Disease</b></p> <ul style="list-style-type: none"> <li>• Prevalence and prognosis.</li> <li>• Evaluation of aortic regurgitation.</li> <li>• Impact of aortic regurgitation on left ventricular function.</li> <li>• When to ideally intervene?</li> </ul>	<p><b>New perspective: analyzing blood flow patterns inside the heart</b></p> <ul style="list-style-type: none"> <li>• How to describe flow patterns and what do they tell us?</li> <li>• What to learn from MRI? Blood flow inside the normal and failing heart.</li> <li>• Tracking 2D blood flow: validation and clinical experience.</li> <li>• Colour Doppler based 2D flow analysis: does it work?</li> <li>• Latest technology for 2D blood flow analysis.</li> </ul>	<p><b>Right ventricular functional assessment</b></p> <p><b>Joint session with the ESC Working Group on Grown-up Congenital Heart Disease</b></p> <ul style="list-style-type: none"> <li>• 3D echocardiography in right ventricular assessment: first choice imaging modality?</li> <li>• Right ventricular electro-mechanical dyssynchrony: what do we know?</li> <li>• Tissue deformation imaging in assessment of the right ventricle: does load-dependency matter?</li> <li>• MRI as gold standard technique for assessment of right ventricle?</li> </ul>	<p><b>The role of echocardiography in sports cardiology</b></p> <p><b>In collaboration with the Italian Working Group on Echocardiography and the European Association for Cardiovascular Prevention &amp; Rehabilitation</b></p> <ul style="list-style-type: none"> <li>• Athlete's heart or hypertrophic cardiomyopathy.</li> <li>• Right ventricular adaptation in endurance athletes.</li> <li>• Novel echocardiographic modalities in the assessment of athlete's heart.</li> <li>• The natural history of aortic remodelling and bicuspid aortic valves in athletes.</li> <li>• Anomalous coronary artery and myocarditis.</li> </ul>	<p><b>Basics of cardiac assessment</b></p> <ul style="list-style-type: none"> <li>• Diameters, volumes and mass of the left heart chambers.</li> <li>• Diameters and volumes of the right heart chambers.</li> <li>• Assessment of left ventricular diastolic function.</li> <li>• Hemodynamic assessment.</li> </ul>	<p><b>Oral Abstract Sessions</b></p> <p><b>Submit your abstract before 31 May 2011</b></p> <p><b>The opportunity to present your research in front of a dedicated audience.</b></p>
12:30	Satellite Symposia						
12:45 13:45							<p><b>Young Investigator Award Abstract Session</b></p>

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# THURSDAY 8 DECEMBER AFTERNOON

	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7		
	MAIN SESSION	CLINICAL IMAGING	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	TEACHING COURSE	ABSTRACTS		
14:00	<p><b>Heart failure with preserved ejection fraction</b></p> <ul style="list-style-type: none"> <li>• Mechanisms of heart failure - Is there a unifying theory of heart failure?</li> <li>• Does the systemic vasculature play a role?</li> <li>• What does the left ventricular ejection fraction tell us?</li> <li>• Assessment of left ventricular diastolic function is a must.</li> </ul>	<p><b>Ischemic heart disease</b></p> <p><b>Joint session with the ESC WG on CMR and the ESC WG on Nuclear Cardiology &amp; Cardiac CT</b></p> <ul style="list-style-type: none"> <li>• Acute chest pain and normal troponin.</li> <li>• Chest pain in patients with negative exercise test.</li> <li>• Patients with chronic left ventricular ischemic dysfunction.</li> <li>• Medical treatment or revascularisation of stable coronary artery disease?</li> </ul>	<p><b>The best in heart valve disease</b></p> <p><b>EAE "Club 35" Session</b></p> <ul style="list-style-type: none"> <li>• Aortic valve stenosis.</li> <li>• Aortic valve regurgitation.</li> <li>• Organic mitral regurgitation.</li> <li>• Functional mitral regurgitation.</li> </ul>	<p><b>3D evaluation of left ventricular function in heart valve disease</b></p> <ul style="list-style-type: none"> <li>• Real-time 3D echo: really the gold standard?</li> <li>• Is 3D contrast echo of added value?</li> <li>• New Insight from 3D strain imaging.</li> <li>• Usefulness of 3D transoesophageal echo.</li> </ul>	<p><b>Left atrioventricular valve</b></p> <p><b>Joint session with the ESC WG on Grown-up Congenital Heart Disease and the ESC WG on Valvular Heart Disease</b></p> <ul style="list-style-type: none"> <li>• Variants of structural abnormalities: 2D/3D preoperative assessment.</li> <li>• Mitral valve prolapse: role of intraoperative assessment.</li> <li>• Mitral vs. left atrioventricular valve regurgitation: same criteria for both?</li> <li>• Echocardiographic guidance for mitral valve procedures.</li> </ul>	<p><b>Valve diseases I</b></p> <ul style="list-style-type: none"> <li>• Aortic stenosis: pitfalls, tricks and tips.</li> <li>• Aortic regurgitation and the diseases of the aorta.</li> <li>• Mitral regurgitation.</li> <li>• Tricuspid valve disease.</li> </ul>	<p><b>Oral Abstract Sessions</b></p> <p><b>Submit your abstract before 31 May 2011</b></p> <p><b>The opportunity to present your research in front of a dedicated audience.</b></p>	P O S T E R	
15:30	Coffee Break - Exhibition - Moderated Posters Session & Poster viewing								
16:30	<p><b>New insights in the management of primary mitral regurgitation</b></p> <p><b>Joint session with the American Society of Echocardiography</b></p> <ul style="list-style-type: none"> <li>• Natural history of organic mitral regurgitation.</li> <li>• Echocardiographic evaluation of organic mitral regurgitation.</li> <li>• New 3D quantification of mitral regurgitation severity.</li> <li>• Stress echocardiography: why bother?</li> </ul>	<p><b>Atherosclerosis</b></p> <p><b>Joint session with the ESC Working Group on Nuclear Cardiology &amp; Cardiac CT and the Council for Cardiology Practice</b></p> <ul style="list-style-type: none"> <li>• Added value of carotid imaging in routine practice.</li> <li>• New imaging modalities for carotid disease evaluation: additional clinical value?</li> <li>• Looking for cardiac calcifications.</li> <li>• Update on what will be the best anti-atherosclerotic treatment.</li> </ul>	<p><b>Frontier in functional imaging in chronic congenital heart disease</b></p> <p><b>Joint session with the American Society of Echocardiography and the ESC Working Group on Grown-Up Congenital Heart Disease</b></p> <ul style="list-style-type: none"> <li>• Ventricular interdependence in chronic heart disease.</li> <li>• Integrated functional assessment in chronic heart disease.</li> <li>• Geometry and function: why bother?</li> <li>• Fusion imaging for functional assessment of chronic heart disease.</li> </ul>	<p><b>Update in myocardial viability</b></p> <p><b>Clinical pathways</b></p> <ul style="list-style-type: none"> <li>• Conference - Rational use of imaging for viability evaluation.</li> <li>• Reading with the experts - Challenging cases on evaluation of viability                             <ul style="list-style-type: none"> <li>- Viability and ischemia: revascularisation or medical treatment?</li> <li>- Viability and dyssynchrony: CRT or medical treatment?</li> <li>- Viability and arrhythmias risk: ICD or medical treatment?</li> <li>- Viability in advanced disease: revascularisation or heart transplant.</li> </ul> </li> </ul>	<p><b>Echocardiographic assessment of coronary circulation</b></p> <p><b>In collaboration with the Polish Working Group on Echocardiography</b></p> <ul style="list-style-type: none"> <li>• Coronary arteries onTTE/ transoesophageal echocardiography.</li> <li>• Coronary flow reserve study- how to do it?</li> <li>• Coronary flow reserve versus standard stress echocardiography and FFR.</li> <li>• Prognostic value of coronary flow reserve after coronary revascularisation.</li> </ul>	<p><b>Valve diseases II</b></p> <ul style="list-style-type: none"> <li>• Mitral stenosis and suitability for valvotomy.</li> <li>• Combined and multivalvular diseases.</li> <li>• Prosthetic valves: normal function and dysfunction.</li> <li>• Echo findings in infective endocarditis.</li> </ul>	<p><b>Oral Abstract Sessions</b></p> <p><b>Submit your abstract before 31 May 2011</b></p> <p><b>The opportunity to present your research in front of a dedicated audience.</b></p>	S E S S I O N	
18:00	Satellite Symposia								
18:15	Satellite Symposia								
19:45	Satellite Symposia								



# FRIDAY 9 DECEMBER MORNING

	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7
	MAIN SESSION	CLINICAL IMAGING	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	TEACHING COURSE	ABSTRACTS
08:30	<p><b>Transcatheter imaging in percutaneous cardiac procedures</b></p> <ul style="list-style-type: none"> <li>• Closure of atrial septal defect.</li> <li>• Peri-procedural guidance of TAVI.</li> <li>• Mitral regurgitation devices.</li> <li>• Diagnosis and treatment of paravalvular leak.</li> </ul>	<p><b>Pulmonary hypertension</b></p> <p><b>Joint session with the ESC WG on Pulmonary Circulation &amp; Right Ventricular Function and the ESC WG on Grown-up Congenital Heart Disease</b></p> <ul style="list-style-type: none"> <li>• Adaptation of the right ventricle to increased after-load?</li> <li>• Pulmonary hypertension and shunts.</li> <li>• 2D guided 3D right ventricular modelling.</li> <li>• New advances in therapeutic options.</li> </ul>	<p><b>Controversies in heart valve disease</b></p> <ul style="list-style-type: none"> <li>• PISA is the best tool to define mitral regurgitation severity <ul style="list-style-type: none"> <li>- PRO.</li> <li>- CONTRA</li> </ul> </li> <li>• Early surgery for asymptomatic severe organic mitral regurgitation. <ul style="list-style-type: none"> <li>- PRO - Early surgery is recommended</li> <li>- CONTRA - "Watchful waiting" is recommended.</li> </ul> </li> </ul>	<p><b>Sleep apnea syndrome and heart failure</b></p> <ul style="list-style-type: none"> <li>• Sleep apnea and LV dysfunction: implications for the arrhythmic risk.</li> <li>• Early cardiac abnormalities in sleep apnea.</li> <li>• Right ventricular dysfunction: a potential screening tool?</li> <li>• New insights from speckle tracking echocardiography.</li> </ul>	<p><b>Diastolic challenges</b></p> <p><b>In collaboration with the Romanian Working Group on Echocardiography</b></p> <ul style="list-style-type: none"> <li>• How to evaluate: general recommendations</li> <li>• The patient with valvular stenosis.</li> <li>• The patient with valvular regurgitation.</li> <li>• The patient with atrial fibrillation.</li> </ul>	<p><b>Heart chambers function</b></p> <ul style="list-style-type: none"> <li>• Global left ventricular systolic function.</li> <li>• Regional left ventricular systolic function.</li> <li>• Left atrial function.</li> <li>• Right ventricular function.</li> </ul>	<p><b>Oral Abstract Sessions</b></p> <p><b>Submit your abstract before 31 May 2011</b></p> <p><b>The opportunity to present your research in front of a dedicated audience.</b></p>
10:00	Coffee Break - Exhibition - Moderated Posters Session & Poster viewing						
10:00 11:00	Coffee Break - Exhibition - Moderated Posters Session & Poster viewing						
11:00	<p><b>Assessment of left ventricular shape for remodelling evaluation</b></p> <p><b>Joint session with the ESC Working Group on Computers in Cardiology</b></p> <ul style="list-style-type: none"> <li>• Pathophysiologic determinants of ventricular remodelling.</li> <li>• How to quantify global and regional LV shape? A review of available techniques.</li> <li>• The importance of shape analysis in ventricular restoration: a surgeon's perspective.</li> <li>• The role of cardiac MR and CT in the evaluation of LV shape and function.</li> </ul>	<p><b>Aortic valve stenosis</b></p> <p><b>Joint session with the ESC WG on CMR and the ESC WG on Valvular Heart Disease</b></p> <ul style="list-style-type: none"> <li>• Left ventricular dysfunction: is aortic stenosis severe?</li> <li>• Imaging in aortic stenosis: clinical perspectives.</li> <li>• How to treat a symptomatic with AVA 1.2 cm<sup>2</sup>?</li> <li>• How to treat an asymptomatic patient with AVA 0.65 cm<sup>2</sup>?</li> <li>• Post-operative evaluation and outcome following aortic valve replacement.</li> </ul>	<p><b>EAE recommendations</b></p> <ul style="list-style-type: none"> <li>• Myocardial function.</li> <li>• Echo in emergencies.</li> <li>• Transcatheter aortic valve implantation.</li> <li>• Clinical Trials.</li> </ul>	<p><b>Clinical use of pocket-size imaging device</b></p> <ul style="list-style-type: none"> <li>• What is an echo machine?</li> <li>• The visual assessment: an old but novel approach.</li> <li>• Usefulness in emergency department.</li> <li>• Outside the hospital: the new semeiotics?</li> </ul>	<p><b>Evaluation and management of mitral stenosis</b></p> <p><b>In collaboration with the Hungarian Working Group on Echocardiography</b></p> <ul style="list-style-type: none"> <li>• Epidemiology of mitral stenosis in 2011.</li> <li>• Echocardiographic evaluation of mitral stenosis.</li> <li>• Stress echocardiography in mitral stenosis.</li> <li>• Indication of valvulotomy and post-intervention evaluation.</li> </ul>	<p><b>Cardiomyopathies</b></p> <ul style="list-style-type: none"> <li>• Hypertrophic cardiomyopathy: obstructive and non-obstructive.</li> <li>• Dilated cardiomyopathy: idiopathic, ischemic and others.</li> <li>• Infiltrative cardiomyopathies, storage and endomyocardial diseases.</li> <li>• Athletes' heart and hypertensive's heart.</li> </ul>	<p><b>Oral Abstract Sessions</b></p> <p><b>Submit your abstract before 31 May 2011</b></p> <p><b>The opportunity to present your research in front of a dedicated audience.</b></p>
12:30	Satellite Symposia						
12:45 13:45	Satellite Symposia						

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# FRIDAY 9 DECEMBER AFTERNOON

	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7		
	MAIN SESSION	CLINICAL IMAGING	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	TEACHING COURSE	ABSTRACTS		
14:00	<p><b>Assessment of functional mitral regurgitation</b></p> <ul style="list-style-type: none"> <li>• Mechanisms and outcomes.</li> <li>• Clinical value of 3D echo.</li> <li>• Role of stress echocardiography.</li> <li>• Timing and selection of patients for mitral valve annuloplasty.</li> </ul>	<p><b>Heart failure</b></p> <p><b>Joint with the Heart Failure Association of the ESC</b></p> <ul style="list-style-type: none"> <li>• Role of imaging in acute heart failure.</li> <li>• Chronic heart failure: how to stratify the risk.</li> <li>• Innervation and new molecular target.</li> <li>• Modern treatment of heart failure.</li> </ul>	<p><b>The best outside Europe</b></p> <ul style="list-style-type: none"> <li>• EUROECHO Lecture.</li> <li>• Presentations from Sister Societies : ECOSIAC.</li> <li>• Korean Society of Echocardiography.</li> <li>• Japanese Society of Echocardiography.</li> <li>• Indian Society of Echocardiography.</li> </ul>	<p><b>Echocardiographic findings in patients with internal diseases</b></p> <ul style="list-style-type: none"> <li>• Rheumatology.</li> <li>• Endocrinology.</li> <li>• Pulmonary disease.</li> <li>• In elderly patients.</li> </ul>	<p><b>Tricuspid regurgitation: dark side of the regurgitations</b></p> <p><b>In collaboration with the Serbian Working Group on Echocardiography</b></p> <ul style="list-style-type: none"> <li>• Anatomy of tricuspid valve for echocardiographers.</li> <li>• Assessment of tricuspid regurgitation: do we have enough data?</li> <li>• Is it functional or organic tricuspid regurgitation?</li> <li>• When to treat tricuspid regurgitation?</li> </ul>	<p><b>Congenital heart diseases - sources of emboli</b></p> <p><b>Course organised by the ESC Working Group on Grown-up Congenital Heart Disease</b></p> <ul style="list-style-type: none"> <li>• Adult with high risk Congenital heart diseases lesions.</li> <li>• Intra-cardiac shunts follow-up and management.</li> <li>• Sources of emboli.</li> <li>• Echo-guided treatment.</li> </ul>	<p><b>Oral Abstract Sessions</b></p> <p><b>Submit your abstract before 31 May 2011</b></p> <p><b>The opportunity to present your research in front of a dedicated audience.</b></p>	P O S T E R	
15:30 16:30	Coffee Break - Exhibition - Moderated Posters Session & Poster viewing								S E S S I O N
16:30	<p><b>Imaging in dilated cardiomyopathy</b></p> <ul style="list-style-type: none"> <li>• Towards the understanding of LV mechanics?</li> <li>• Left ventricular diastolic function and filling pressure.</li> <li>• Differential diagnosis with ischemic disease.</li> <li>• Factors associated with a poor outcome.</li> </ul>	<p><b>Thoracic aorta diseases</b></p> <p><b>Joint session with the ESC WG on CMR and the ESC WG on Nuclear Cardiology &amp; Cardiac CT</b></p> <ul style="list-style-type: none"> <li>• Acute aortic syndrome: is transoesophageal echocardiography the best approach?</li> <li>• How to evaluate patients with aortic trauma?</li> <li>• Imaging and therapeutic options?</li> <li>• Monitoring aortic endoprosthesis implantation.</li> </ul>	<p><b>Echo at Jeopardy</b></p> <p>Two Teams Many Clinical Cases - Questions - discussions</p> <p>Original and Interactive format to approach practical cases ...</p>	<p><b>Is echo still useful for resynchronisation therapy?</b></p> <ul style="list-style-type: none"> <li>• Accuracy of echo in identifying dyssynchrony and responders in routine.</li> <li>• New echocardiographic parameters to identify responders to cardiac resynchronisation therapy.</li> <li>• The role of scar: from echo to cardiac MRI.</li> <li>• Reverse remodelling in patients with NYHA I-II classes.</li> </ul>	<p><b>Rotation, twisting and torsion: what does it mean and what can we learn from it?</b></p> <ul style="list-style-type: none"> <li>• From myocardial fibre architecture to ventricle torsion.</li> <li>• Normal patterns of rotation/ torsion and changes with aging.</li> <li>• Volume and pressure overload: how does it change rotation/ torsion?</li> <li>• Rotation/torsion in hypertrophic cardiomyopathies and non-compaction.</li> </ul>	<p><b>Ischemic heart disease</b></p> <ul style="list-style-type: none"> <li>• Role of echo in patients with acute chest pain.</li> <li>• Complications of acute myocardial infarction.</li> <li>• Stress echo protocols and techniques.</li> <li>• Doppler coronary flow reserve.</li> </ul>	<p><b>Oral Abstract Sessions</b></p> <p><b>Submit your abstract before 31 May 2011</b></p> <p><b>The opportunity to present your research in front of a dedicated audience.</b></p>	O N	
18:00									4

The information published in this programme is accurate at the time it goes to press. The Scientific Committee reserves the right to amend it at any time. To view all modifications after the publication date, please visit the Scientific Programme Online at [www.esccardio.org/euroecho](http://www.esccardio.org/euroecho)

# SATURDAY 10 DECEMBER

	Room 1	Room 3	Room 5	Room 6		
08:30	<b>The difficult patient with multiple valve disease Clinical Pathways</b> <ul style="list-style-type: none"> <li>• Conference- How to manage multiple valve disease in clinical practice?</li> <li>• Difficult cases: reading with the experts Aortic stenosis and aortic regurgitation. Aortic stenosis and mitral regurgitation. Moderate tricuspid regurgitation at the time of left-sided valve surgery.</li> </ul>	<b>Controversies in echocardiography</b> <ul style="list-style-type: none"> <li>• Perfusion contrast echocardiography: facts or fiction? PRO - The Holy Grail: simultaneous perfusion and function. CON - In clinical practice: function yes, perfusion no.</li> <li>• Who should perform emergency echo: point of no return The non-cardiologist view. The cardiologist view.</li> </ul>	<b>Prosthetic valve evaluation</b> <ul style="list-style-type: none"> <li>• Prosthesis with high gradient: differential diagnosis using echo and other imaging modalities.</li> <li>• Prosthetic valve regurgitation: detection, localisation, and quantification.</li> <li>• Role of imaging in the diagnosis and treatment of prosthetic valve thrombosis.</li> <li>• Role of echo in the diagnosis and management of prosthetic valve endocarditis.</li> </ul>	<b>Advanced echo techniques I</b> <ul style="list-style-type: none"> <li>• Current applications of TDI and speckle tracking.</li> <li>• Assessment of cardiac dyssynchrony.</li> <li>• Technical aspects and current applications of contrast echo.</li> <li>• Invasive echocardiography.</li> </ul>	P O S T E R	
10:00	Coffee Break - Exhibition - Moderated Posters Session & Poster viewing					
10:00 11:00	Coffee Break - Exhibition - Moderated Posters Session & Poster viewing					S E S S I O N
11:00	<b>EUROECHO &amp; Other Imaging Modalities Congress Highlights</b> <ul style="list-style-type: none"> <li>• Heart valve diseases.</li> <li>• Left ventricular mechanics and function.</li> <li>• 3D echo.</li> <li>• Congenital heart diseases.</li> <li>• Cardiac CT.</li> <li>• Cardiac MRI.</li> </ul>	<b>Strain imaging: are we really measuring contractility?</b> <ul style="list-style-type: none"> <li>• Dependency of strain and strain rate on the different determinants of cardiac performance.</li> <li>• How does cardiac loading influence left ventricular function?</li> <li>• How does cardiac loading influence right ventricular function?</li> <li>• Can loading modulation be used to estimate contractility in individual patients?</li> </ul>	<b>Fontan circulation Clinical pathways in congenital heart disease</b> <ul style="list-style-type: none"> <li>• Conference- How to assess Fontan circulation.</li> <li>• Reading with the experts: Difficult cases on Fontan circulation.</li> </ul>	<b>Advanced echo techniques II</b> <ul style="list-style-type: none"> <li>• 2D Transesophageal echocardiography.</li> <li>• Real time 3D echocardiography: valve morphology.</li> <li>• 3D/4D echocardiography of the left heart: size, volumes and function.</li> <li>• 3D/4D echocardiography of the right heart: size, volumes and function.</li> </ul>	5	
12:30						



## CME ACCREDITATION

EUROECHO & other Imaging Modalities 2011 is accredited by the European Board for Accreditation in Cardiology (EBAC) for **20 hours** of External CME credits. EBAC works according to the quality of standards of the European Accreditation Council for Continuing Medical Education (EACCME), which is an institution of the European Union of Medical Specialists (UEMS). These credits can be transferred into North American AMA credits on the American Medical Association (AMA). More information on: [www.ebac-cme.org](http://www.ebac-cme.org)

## Language

The official language during the congress is English.  
No translation is available.



## Disabled people

The building is fully accessible to disabled people.

## Currency

The official currency in Hungary is the Hungarian Forint (HUF). Both payments in HUF and Euro will be accepted.

## EUROECHO 2010 Key figures

- 4 days of scientific presentations in 7 lecture rooms
- Over 150 scientific sessions
- 360 International Faculty
- 3000 healthcare professionals (from 87 countries)
- 1320 Abstracts submitted
- 645 Posters
- 630 m<sup>2</sup> of Exhibiting Industry

**A chance to meet and network on an international scale!**

## INDUSTRY at EUROECHO & other Imaging Modalities

### CONTINUE YOUR EDUCATION

Our industry partners are at the very heart of patient care providing you with the necessary data on products and resources to facilitate your daily practice and improve patient outcomes.

The very latest cardiovascular developments will be discussed and debated by the industry for you during the congress - make sure you share in this experience by attending the following:

#### Satellite & Mini-Satellite Symposia



Delegates are cordially invited to attend a series of Industry Educational Sessions accepted and included in the EUROECHO & other Imaging Modalities 2011 scientific programme. These sessions will offer pertinent data on the scientific development in cardiovascular care from the industry.

#### The IMAGING CAMPUS - Credits Approval!



The Imaging Campus offers delegates a unique opportunity for practical training and hands-on learning from industry experts in an intimate setting, allowing you to address specific issues essential to your daily practice. Registration and information online on [www.euroecho.org](http://www.euroecho.org)

#### Exhibition



At the heart of the congress centre, the exhibition will provide you with the opportunity to exchange with key industry experts on critical areas of development and research in cardiovascular products and therapies. The exhibition will be a central hub for scientific discussion and exchange during the congress.

Further information regarding Satellite Symposia, Imaging Campus and Exhibition on [www.euroecho.org](http://www.euroecho.org)

### Mark your calendar

#### Scientific Programme Online

From July 2011

#### Abstract Selection Results Online

End of July

#### Early Bird Registration Deadline

30 September 2011

#### Advance Registration Deadline

31 October 2011

#### On-site Registration in Budapest

From 6 December 2011

### Save money, organise your congress preparation now

Our ESC services include:

- Registration
- Housing

### We are here for you:

Visit [www.euroecho.org](http://www.euroecho.org)  
your gateway to EUROECHO  
& other Imaging Modalities 2011

Please do not hesitate to contact us!

[euroecho@escardio.org](mailto:euroecho@escardio.org)



## HOW TO GET TO BUDAPEST

### By plane

More and more international airlines operate direct flights to Budapest.

Budapest Ferihegy Airport is 15 kilometres away from the City Centre.

3 terminals are available:

- Ferihegy I: Budget flights,
- Ferihegy 2A: Schengen flights,
- Ferihegy 2B: Non-Schengen flights.

Flight information: +36 (1) 296 7000

### By Bus

There are also many bus routes across the country, operated by the Hungarian company Volánbusz; jump on at one of the capital's three main bus stations.

### By rail

More than 50 trains a day provide direct links between Budapest and 25 other capital cities. Trains to Vienna run every 3 hours.

Budapest is home to 3 main railway stations, from which Express and InterCity trains lead to all the country's main tourist regions with great views along the way:

- Keleti pályaudvar: VIII., Baross tér. Tel.: +36 (1) 413 4610
- Nyugati pályaudvar: VI., Nyugati tér Tel: +36 (1) 349 8503
- Déli pályaudvar I. Krisztina krt. 37. Tel: +36 (1) 375 6593

All 3 international railway stations are part of the Budapest Underground system, the Metró. Déli and Keleti are stops on the Red (Number 2) line and Nyugati is on the Blue (Number 3) line.

### Budapest City Card



Buy a Budapest Card from one of the 3 Tourinform offices at the Airport or online before you leave on [www.budapestcitycard.com](http://www.budapestcitycard.com) and get lots of discounts plus free use of the public transport system around the city.

*... the “little Paris  
of central Europe“...*



## CITY INFORMATION

*Budapest has a lot to offer. Museums and galleries, churches and synagogues, palaces and historic buildings, baths and pools are presented together with the influence of Secession in the city. There is an unmistakable feeling that something out of the ordinary is just around the corner, but what it will be is up to you to find out...*

### Bath & spas



Mother Nature has been especially bountiful towards Hungary: the country sits on one of the richest geothermal and medicinal water resources in the world. The local culture of bathing goes back two thousand years; excavated remains of bath houses, frescoes and mosaics demonstrate that the Romans discovered and exploited these thermal water resources.

Hungarian water is not just for splashing – it can be soothing too. The country is blessed with an abundance of natural thermal springs, which emerge at a temperature of 86°F/30°C and are full of salts and minerals.

Whether you're after relaxation, refreshment, rejuvenation or recovery, Hungary will not fail to meet your needs. Many towns have thermal baths of some sort, providing not only the chance to soak away those aches but also to take advantage of massages, saunas and perhaps more advanced treatments such as pearl baths and Kneipp treatments. In addition to the public baths, over 50 spa hotels have been constructed, allowing guests to tailor their holidays around the beneficial effects of the springs.



### Dining out

Today's Budapest is very much a cosmopolitan city - you can find any type of food from anywhere in the world. Most restaurants offer a mixture of Hungarian and international flavours and are required to display their prices outside their doors, so you always know what to expect before you take the plunge.

### Budapest by boat

The city can be explored in a number of ways, but a boat ride along the Danube is by far the most relaxing. Two companies (Legenda Ltd. and MAHART Passnave) offer city cruises, as well as regular rides to tourist attractions outside Budapest, such as Szentendre, Visegrád and Esztergom. Bratislava and Vienna can also be visited by hydrofoil.

*"By courtesy of the Hungarian National Tourist Office"*



## REGISTRATION FEES

The following registration fees entitle delegates to the following:

- Entry to all scientific sessions and the exhibition
- A copy of the Final Programme
- Access to EUROECHO 2011 online abstracts
- Coffee breaks from Thursday 8 to Saturday 10 December 2011

EAE Member in 2011			
	Club Green / Club Classic	Club 35	Nurse / Sonographer*
Early bird until 30/09/2011	530 €	320 €	320 €
Advance until 31/10/2011	670 €	365 €	365 €
On site from 06/12/2011	735 €	415 €	415 €

NON EAE Member			
	Standard	Born After 01/01/1976*	Nurse / Sonographer*
Early bird until 30/09/2011	575 €	350 €	350 €
Advance until 31/10/2011	715 €	400 €	400 €
On site from 06/12/2011	780 €	460 €	460 €

**Become an EAE Member in 2012 for 25€ extra**

Packages - New EAE Member in 2012			
	Standard	Born After 01/01/1976*	Nurse / Sonographer*
Early bird until 30/09/2011	600 €	375 €	375 €
Advance until 31/10/2011	740 €	425 €	425 €
On site from 06/12/2011	805 €	485 €	485 €

## EAE Membership Advantages

### DURING EUROECHO 2011

- Discount on congress registration & exams
- Exclusive EAE Members Lounge access
- EAE Membership Services desk
- Special congress bag
- ...And much more!

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### BENEFITS AS OF 01/01/2012

- Exclusive Educational online resources (Webinars, Basic Echo Course...)
- European Journal of Echocardiography (12 online issues)
- Automatic ESC Membership

\***Reduced Fees:** A copy of ID card or passport for the Born After 01/01/1976 and a Statement from the head of your department for the Nurse/Sonographer must be provided.

Online registration via "My ESC" on: [www.euroecho.org](http://www.euroecho.org)  
For further information, please contact the ESC Registration Department: [EEregistration@escardio.org](mailto:EEregistration@escardio.org)

## IMPORTANT DEADLINES

### Abstract Submission

31 May 2011

### Early bird registration

30 September 2011

### Advance registration

31 October 2011

## HOTEL ACCOMMODATION

Book your room in Budapest through the ESC at our selected hotels. Details and online reservation on [www.euroecho.org](http://www.euroecho.org)  
Rates in Euro, per night, including Breakfast.

Hotel (incl. 25% VAT)	Single Rate	Double Rate
Corinthia Hotel Budapest 5*	135 €	155 €
Sofitel Budapest Chain Bridge 5*	131 €	152 €
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## CONTACT DETAILS

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