

## Steering Committee:

E. Alexanderson Rosas, WFNMB	S. Liu, USA
K. Bacher, Belgium	J. Mahmarian, ASNC
A. Bischof Delaloye, Switzerland	S. Merlano Gaitán, Colombia
S. E. Bouyoucef, Algeria	S.R. Underwood, EANM
H. Bom, ARCCNM	J. V. Vitola, Brazil
G.L. Dillehay, SNMMI	U. S. Bhonsle, IAEA
A. J. Einstein, ASNC	M.Dondi, IAEA
A. Flotats Giralt, Spain	A. Duatti, IAEA
R. M. T. Giubbini, Italy	M.Haji-Saeid, IAEA
G.Karthikeyan, India	R. Kashyap, IAEA
F. Keng, Singapore	D. Paez, IAEA
P. A. Kaufmann, EANM	T. Pascual, IAEA
V. R. Lele, SNMMI	G. L. Poli, IAEA

## IAEA Secretariat:

Scientific Secretaries: M. Dondi  
R. Kashyap  
M. Haji-Saeid

Assistants to Scientific  
Secretaries: J. Antal  
S. Babikir  
J. Meeks

Administration and  
Organization: K. Morrison  
M. Neuhold

Exhibition Coordination:  
B. Keceli Meszaros

TC Coordination: R. Ramirez Garcia

## Location of the Conference:

International Atomic Energy Agency  
Vienna International Centre (VIC)  
M Building  
Board Room A  
1400 Vienna, Austria  
Tel.: (+43 1) 2600 21324  
Fax: (+43 1) 2600 7

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**Working Language:** English

**Resolutions:** No resolutions may be submitted for consideration on any subject; no votes will be taken.

## TIMETABLE

### Sunday, 29 September 2013

16:00-18:00 Registration Gate 1

### Monday, 30 September 2013

08:00 Registration M Building,  
Ground Floor

09:30-10:30 Opening Ceremony

10:30-12:30 Session 1: Current Applications  
of Cardiac Imaging

12:30-14:00 Lunch Break

14:00-15:30 Session 2: 'How to' Stress my  
Patient

15:30-16:30 Poster Review Session 1  
(see next page for details)

16:30-17:50 Session 3: Read with  
Experts – Cardiac  
Imaging Techniques  
in Clinical Practice

18:00-20:00 Welcome Reception

### Tuesday, 1 October 2013

08:30-09:00 Session 4: Anatomy,  
Physiology  
and Biology of  
Coronary Arteries

09:00-10:30 Session 5: Cardiac Imaging  
in Trials of CAD  
Management

### Tuesday, 1 October 2013 (cont.)

10:30-11:00 Coffee/ Tea Break

11:00-12:30 Session 6: Appropriate use  
Criteria for Cardiac  
Imaging Techniques

12:30-14:00 Lunch Break

14:00-15:15 Session 7: Customizing Imaging  
and Acquisition  
Protocols for CAD  
Detection

15:15-16:15 Poster Review Session 2  
(see next page for details)

16:15-17:35 Session 8: Read with  
Experts –  
Recognizing  
Artefacts and Pitfalls

### Wednesday, 2 October 2013

08:30-09:00 Session 9: How to Read a  
Coronary Angiogram:  
Anatomy in Context

09:00-10:30 Session 10: Safety  
Considerations

10:30-11:00 Coffee/ Tea Break

11:00-12:20 Session 11: Read with  
Experts –  
Challenging Cases –  
Stump the Stars

12:20-13:30 Lunch Break

## **Wednesday, 2 October 2013 (cont.)**

13:30-15:00 Session 12: Physics and Radiochemistry

## **Thursday, 3 October 2013**

08:30-09:00 Session 13: ECG Interpretation

09:00-10:30 Session 14: Patient Centered Imaging

10:30-11:00 Coffee/ Tea Break

11:00-12:30 Session 15: Imaging Heart Failure

12:30-14:00 Lunch Break

14:00-15:30 Session 16: Analyze, Interpret, Quantify and Report

15:30-16:30 Poster Review Session 3  
(see next page for details)

16:30-17:50 Session 17: Read with Experts – Congestive Heart Failure

## **Friday, 4 October 2013**

08:30-09:00 Session 18: Clinical Risk Stratification: Role in Interpretation of Imaging Studies and Patient Management

09:00-10:30 Session 19: Quality of Practice

10:30-11:00 Coffee/ Tea Break

11:00-12:30 Session 20: Hybrid Imaging

12:30-13:30 Closing Ceremony

## **POSTERS**

All posters presented at the IMIC 2013 will be eligible for poster awards provided that they are presented in person during the poster sessions.

A selection committee will be appointed by the IAEA to review the posters on display at the conference, attend the poster presentations, and, at the conclusion of the conference, select a predetermined number of posters to receive the award.

Poster Award session will take place 13:00-13:30 on Friday, 3rd October 2013.

All posters will be displayed for the entire duration of the conference on the ground floor of the corridors A and B.

For the listing of posters and the scheduled review sessions please see the back of the programme.

## **COMMERCIAL EXHIBITS**

Exhibits will be located on the Ground floor of A and B building corridors from Monday to Friday, 30 September - 4 October 2013.

## SUNDAY, 29 SEPTEMBER 2013

16:00 - 18:00      **Registration and distribution of  
conference material**

## MONDAY, 30 SEPTEMBER 2013

08:00              **Registration and distribution of  
conference material**

09:30 - 10:30      **OPENING CEREMONY**

09:30 - 10:00      **D. Mohamad, IAEA**  
Deputy Director General  
Head of Department of Nuclear Sciences  
and Applications

**K. Aning, IAEA**  
Deputy Director General  
Head of Department of  
Technical Cooperation

**R. K. Chhem, IAEA**  
Director  
Division of Human Health  
Department of Nuclear Sciences  
and Applications

**M. Venkatesh, IAEA**  
Director  
Division of Physical and Chemical Sciences  
Department of Nuclear Sciences  
and Applications

10:00 - 10:30      **J. V. Vitola      Brazil**

### **An Overview of CVD: A Major Threat to Public Health**

1. To illustrate the growing incidence of cardiovascular disease across the world and within specific countries
2. To demonstrate the value of cardiac imaging in early detection of cardiovascular disease and in guiding treatment

## MONDAY, 30 SEPTEMBER 2013

10:30 - 12:30      **SESSION 1:**  
**Current Applications of Cardiac Imaging**

**Chairperson:**      R. M. T. Giubbini, Italy  
**IAEA Coordinator:** R. Kashyap

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
10:30 - 11:00	<b>P. Smanio</b>	<b>SNMMI</b>	<b>Current Applications of Cardiac Imaging: Nuclear Medicine</b> To determine the current status and review the clinical applications of nuclear cardiology imaging techniques in the management of cardiovascular diseases
11:00 - 11:30	<b>A. Jain</b>	<b>AHA</b>	<b>Current Applications of Cardiac Imaging: Echocardiography</b> To determine the current status and review the clinical applications of echocardiographic imaging techniques in the management of cardiovascular diseases
11:30 - 12:00	<b>P. A. Kaufmann</b>	<b>EANM</b>	<b>Current Applications of Cardiac Imaging: Computed Tomography</b> To determine the current status and review the clinical applications of CT imaging techniques in the management of cardiovascular diseases
12:00 - 12:30	<b>J. Lotz</b>	<b>ESR</b>	<b>Current Applications of Cardiac Imaging: MRI</b> To determine the current status and review the clinical applications of MR imaging techniques in the management of cardiovascular diseases
12:30 - 14:00	<i>Lunch Break</i>		

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## MONDAY, 30 SEPTEMBER 2013

**14:00 - 15:30**      **SESSION 2:**  
**'How to' Stress my Patient**

**Chairperson:**      **A. Malhotra, India**  
**IAEA Coordinator:** **R. Nuñez Miller**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
14:00 - 14:20	<b>J. Mahmarian</b>	<b>ASNC</b>	<b>Choosing the Proper Stress Test</b> To gain an understanding of the various stress modalities available and how to choose the proper modality in an individual patient
14:20 - 14:40	<b>J. V. Vitola</b>	<b>Brazil</b>	<b>Pharmacological Stress Agents and Protocols</b> An overview of pharmacological stress, patient preparation and protocols including combined exercise and vasodilator stress
14:40 - 15:00	<b>S. R. Underwood</b>	<b>EANM</b>	<b>New Pharmacological Stressor Agents</b> New A2a receptor agonist pharmacological stressor agents overview and use in special populations

15:00 - 15:30      **Discussion**

**15:30 - 16:30**      **POSTER REVIEW SESSION 1:**  
**with coffee/ tea/ refreshments**

**Location:**              **Corridor A and B: Ground Floor**

**IAEA Coordinator:** **T. Pascual**

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<i>Poster Reviewers</i>	<i>Designating Member State/ Organization</i>
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<b>A. Bischof Delaloye</b>	Switzerland
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<b>S. Merlano Gaitán</b>	Colombia
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<b>F. Mut</b>	Uruguay
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<b>S. E. Bouyoucef</b>	Algeria
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<b>H. Bom</b>	ARCCNM
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<b>E. Mishani</b>	Israel
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<b>V. Kumar</b>	Australia
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<b>A. Malhotra</b>	India
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## MONDAY, 30 SEPTEMBER 2013

**16:30 - 17:50**      **SESSION 3: Read with Experts (RWE):  
Cardiac Imaging Techniques in Clinical  
Practice**

**Chairperson:**      **F. Mut, Uruguay**  
**IAEA Coordinator:** **D. Paez**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
16:30 - 16:50	<b>R. M. T. Giubbini</b>	<b>Italy</b>	<b>SPECT</b> To develop an understanding of: 1. Clinical use of SPECT 2. Pitfalls in usage
16:50 - 17:10	<b>B. Elison</b>	<b>ANZSNM</b>	<b>CTCA</b> To develop an understanding of: 1. Clinical use of CTCA 2. Pitfalls in usage
17:10 - 17:30	<b>A. Meave</b>	<b>Mexico</b>	<b>Cardiac MR</b> To develop an understanding of: 1. Clinical use of MR 2. Pitfalls in usage
17:30 - 17:50	<b>V. R. Lele</b>	<b>SNMMI</b>	<b>PET</b> To develop an understanding of: 1. Clinical use of PET 2. Pitfalls in usage
<b>18:00 - 20:00</b>	<b>Welcome Reception</b>		

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## TUESDAY, 1 OCTOBER 2013

**08:30 - 09:00**      **SESSION 4:**  
**Anatomy, Physiology and Biology**  
**of Coronary Arteries**

**Speaker:**            **E. Alexanderson Rosas, WFNMB**

To review basic aspects of coronary anatomy and physiology

**09:00 - 10:30**      **SESSION 5: Cardiac Imaging in Trials of**  
**CAD Management**

**Chairperson:**      **F. Mut, Uruguay**  
**IAEA Coordinator:** **T. Pascual**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
09:00 - 09:20	<b>S. R. Underwood</b>	<b>EANM</b>	<b>Clinical Trials in Chronic Coronary Artery Disease</b> To take home messages from recent clinical trials including CE-MARC, MR-IMPACT2, DIAD, etc.
09:20 - 09:40	<b>J. Mahmarian</b>	<b>ASNC</b>	<b>Clinical Trials in Acute Coronary Syndromes</b> To increase awareness of the role of cardiac imaging in the evaluation of patients with acute chest pain and how recent clinical trials (e.g. Romicat, Inspire) can guide patient triage and clinical decision-making
09:40 - 10:00	<b>G. Karthikeyan</b>	<b>India</b>	<b>Clinical Trials in Imaging for Coronary Revascularization</b> To provide a balanced perspective on the role of imaging in decisions on coronary revascularization based on a critical appraisal of the available evidence from randomized trials e.g. STICH, COURAGE, etc.
10:00 - 10:30	<b>Discussion</b>		
10:30 - 11:00	<i>Coffee/ Tea Break</i>		

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## TUESDAY, 1 OCTOBER 2013

11:00 - 12:30      **SESSION 6: Appropriate use Criteria for Cardiac Imaging Techniques**

Chairperson:      **J. Mahmarian, ASNC**

IAEA Coordinator: **T. Pascual**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
11:00 - 11:20	<b>A. Einstein</b>	<b>ASNC</b>	<b>The Appropriate use of SPECT/ PET</b> <ol style="list-style-type: none"><li>1. To understand the development and application of appropriate use criteria and clinical practice guidelines</li><li>2. To learn common appropriate and inappropriate indications for cardiac imaging</li><li>3. To gain familiarity with the literature on rates of appropriateness and strategies to improve appropriateness</li></ol>
11:20 - 11:40	<b>A. Jain</b>	<b>AHA</b>	<b>The Appropriate use of Stress Echo</b> <ol style="list-style-type: none"><li>1. To understand the development and application of appropriate use criteria and clinical practice guidelines</li><li>2. To learn common appropriate and inappropriate indications for cardiac imaging</li><li>3. To gain familiarity with the literature on rates of appropriateness and strategies to improve appropriateness</li></ol>
11:40 - 12:00	<b>J. Lotz</b>	<b>ESR</b>	<b>The Appropriate use of CT and MRI</b> <ol style="list-style-type: none"><li>1. To understand the development and application of appropriate use criteria and clinical practice guidelines</li><li>2. To learn common appropriate and inappropriate indications for cardiac imaging</li><li>3. To gain familiarity with the literature on rates of appropriateness and strategies to improve appropriateness</li></ol>
12:00 - 12:30	<b>Discussion</b>		

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12:30 - 14:00	<i>Lunch Break</i>		
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## TUESDAY, 1 OCTOBER 2013

**14:00 - 15:15**      **SESSION 7: Customizing Imaging and Acquisition Protocols for CAD Detection**

**Chairperson:**      **S. Merlano Gaitán, Colombia**  
**IAEA Coordinator:** **R. Nuñez Miller**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
14:00 - 14:20	<b>J. V. Vitola</b>	<b>Brazil</b>	<b>Current Tracers for PET and SPECT: Advantages and Disadvantages</b> 1. To provide an overview of the basic principles and methodologies involving current tracers for CAD detection 2. To gain an understanding of customizing the imaging general advantages and limitations; pros and cons for patient selection
14:20 - 14:40	<b>N. Better</b>	<b>ANZSNM</b>	<b>Optimizing Imaging Protocols for CAD Detection</b> 1. Overview of currently available imaging protocols 2. Choosing the optimal protocol for an individual patient
14:40 - 15:00	<b>S. E. Bouyoucef</b>	<b>Algeria</b>	<b>Practicing Nuclear Cardiology in Emerging Economies</b> How to overcome challenges to the practice of nuclear medicine in emerging economies
15:00 - 15:15	<b>Discussion</b>		
<b>15:15 - 16:15</b>	<b>POSTER REVIEW SESSION 2: with coffee/ tea/ refreshments</b>		
<b>Location:</b>	<b>Corridor A and B: Ground Floor</b>		
<b>IAEA Coordinator:</b>	<b>T. Pascual</b>		

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<i>Poster Reviewers</i>	<i>Designating Member State/ Organization</i>
<b>A. Bischof Delaloye</b>	Switzerland
<b>S. Merlano Gaitán</b>	Colombia
<b>F. Mut</b>	Uruguay
<b>S. E. Bouyoucef</b>	Algeria
<b>H. Bom</b>	ARCCNM
<b>E. Mishani</b>	Israel
<b>G. L. Dillehay</b>	SNMMI
<b>V. Kumar</b>	Australia
<b>A. Malhotra</b>	India

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## TUESDAY, 1 OCTOBER 2013

16:15 - 17:35      **SESSION 8: Read with Experts (RWE):  
Recognizing Artefacts and Pitfalls**

**Chairperson:**      S. R. Underwood, EANM  
**IAEA Coordinator:** R. Kashyap

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
16:15 - 16:35	<b>R. M. T. Giubbini</b>	<b>Italy</b>	<b>Overview of Artefacts in Nuclear Cardiology</b> To provide an overview of the artefacts in nuclear cardiology
16:35 - 16:55	<b>P. Smanio</b>	<b>SNMMI</b>	<b>Recognizing Artefacts and Pitfalls I</b> The participants should be able to recognize common artefacts and pitfalls in myocardial perfusion SPECT imaging and read the scan around them
16:55 - 17:15	<b>S. Merlano Gaitán</b>	<b>Colombia</b>	<b>Recognizing Artefacts and Pitfalls II</b> The participants should be able to recognize common motion artefacts and pitfalls in myocardial perfusion SPECT imaging and read the scan around them
17:15 - 17:35	<b>H. Bom</b>	<b>ARCCNM</b>	<b>Recognizing Artefacts and Pitfalls III</b> The participants should be able to recognize common artefacts and pitfalls in myocardial perfusion SPECT imaging and read the scan around them

## WEDNESDAY, 2 OCTOBER 2013

**08:30 - 09:00**      **SESSION 9:**  
**How to Read a Coronary Angiogram:**  
**Anatomy in Context**

**Speaker:**            **G. Karthikeyan, India**

An introduction to interpretation of invasive coronary angiograms from a diagnostic and treatment perspective

**09:00 - 10:30**      **SESSION 10: Safety Considerations**

**Chairperson:**        **S. E. Bouyoucef, Algeria**  
**IAEA Coordinator:** **G. L. Poli**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
09:00 - 09:20	<b>M. Rehani</b>	<b>ESR</b>	<b>Radiation Burden in Cardiac Imaging</b> <ol style="list-style-type: none"><li>1. To learn about levels of radiation doses given to patients in cardiac imaging examinations</li><li>2. To understand the radiation burden of cardiac imaging vis a vis overall radiological exposures to patients</li><li>3. To become familiar with safety implications for individual patient radiation burden</li></ol>
09:20 - 09:40	<b>P. A. Kaufmann</b>	<b>EANM</b>	<b>Safety of Contrast Agents: CT/ MR/ Echo</b> <ol style="list-style-type: none"><li>1. To be aware of the most important contrast agent related safety issues</li><li>2. To be able to assess the individual risk</li><li>3. To know strategies to prevent the contrast associated risks</li></ol>
09:40 - 10:00	<b>A. Einstein</b>	<b>ASNC</b>	<b>Safety Concerns in Cardiovascular Imaging and Optimization Strategies in SPECT and CT</b> <ol style="list-style-type: none"><li>1. To review safety concerns with drugs used for cardiac imaging</li><li>2. To learn basics of radiation safety</li><li>3. To survey approaches used to reduce radiation dose in SPECT and CT</li></ol>
10:00 - 10:30	<b>Discussion</b>		
10:30 - 11:00	<i>Coffee/ Tea Break</i>		

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## WEDNESDAY, 2 OCTOBER 2013

11:00 - 12:20      **SESSION 11: Read with Experts  
(RWE): Challenging Cases - Stump the  
Stars**

**Chairperson:** P. Smanio, SNMMI  
**IAEA Coordinator:** D. Paez

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
11:00 - 11:20	<b>S. R. Underwood</b>	<b>EANM</b>	<b>Challenging Cases I</b> A systematic approach to interpretation of common and less common nuclear cardiology cases
11:20 - 11:40	<b>F. Mut</b>	<b>Uruguay</b>	<b>Challenging Cases II</b> Cases on application of nuclear techniques in the diagnostic and prognostic assessment of heart failure patients
11:40 - 12:00	<b>J. V. Vitola</b>	<b>Brazil</b>	<b>Challenging Cases III</b> Examples of particularly challenging cases with discussion
12:00 - 12:20	<b>V. R. Lele</b>	<b>SNMMI</b>	<b>Challenging Cases IV</b> Review of challenging cases in nuclear cardiology
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12:20 - 13:30	<i>Lunch Break</i>		

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## WEDNESDAY, 2 OCTOBER 2013

13:30 - 15:00      **SESSION 12:**  
**Physics and Radiochemistry**

**Chairperson:**      **V. Kumar, Australia**  
**IAEA Coordinator:** **U. Bhonsle**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
13:30 - 14:00	<b>G. De Puey</b>	<b>ASNC</b>	<b>Hardware and Software for MPI</b> <ol style="list-style-type: none"><li>1. To describe scintillation camera and software reconstruction software advancements that allow for reduced SPECT-MPI acquisition time and reduced injected activity</li><li>2. To understand how iterative reconstruction, noise reduction, and resolution recovery allow for reduced SPECT-MPI acquisition time and reduced injected activity</li></ol>
14:00 - 14:30	<b>S. Liu</b>	<b>USA</b>	<b>New SPECT Radiotracers for Myocardial Perfusion Imaging</b> Better understanding of new SPECT radiotracers for myocardial perfusion imaging
14:30 - 15:00	<b>E. Mishani</b>	<b>Israel</b>	<b>PET-MPI Imaging Agents</b> <ol style="list-style-type: none"><li>1. Summary of clinically available PET-MPI agents</li><li>2. The advantages/ drawbacks of PET-MPI agents</li><li>3. The current status of potential PET-MPI agents which are either under clinical trials or preclinical evaluation</li></ol>

## THURSDAY, 3 OCTOBER 2013

08:30 - 09:00      **SESSION 13: ECG Interpretation**

**Speaker:**            **J. V. Vitola, Brazil**

Basics of ECG: recognition of patterns that could influence nuclear cardiology results

09:00 - 10:30      **SESSION 14: Patient Centered Imaging**

**Chairperson:**        **A. Bischof Delaloye, Switzerland**

**IAEA Coordinator:** **R. Kashyap**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
09:00 - 09:20	<b>J. Mahmarian</b>	<b>ASNC</b>	<b>Patient Centred Imaging: The Asymptomatic Patient</b> <ol style="list-style-type: none"><li>1. What is the role of cardiac imaging techniques in evaluating asymptomatic patients at risk for coronary artery disease?</li><li>2. Who should be imaged and what imaging technique is appropriate based on an individual's clinical risk profile?</li></ol>
09:20 - 09:40	<b>G. De Puey</b>	<b>ASNC</b>	<b>Patient Centred Imaging: Symptomatic Patient with Suspected or Known CAD</b> <ol style="list-style-type: none"><li>1. Choose the imaging protocol that will provide the greatest diagnostic accuracy and risk-stratification capabilities</li><li>2. Choose the stress modality that will yield the greatest diagnostic information</li></ol>
09:40 - 10:00	<b>N. Better</b>	<b>ANZSNM</b>	<b>Patient Centred Imaging in Patients with Acute Chest Pain</b> <p>To be able to use nuclear cardiology techniques appropriately in high risk groups (e.g. diabetics, vascular patients, pre-op evaluation) in triaging patient management</p>
10:00 - 10:30	<b>Discussion</b>		
10:30 - 11:00	<i>Coffee/ Tea Break</i>		

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## THURSDAY, 3 OCTOBER 2013

11:00 - 12:30      **SESSION 15: Imaging Heart Failure**

**Chairperson:** G. L. Dillehay, SNMMI

**IAEA Coordinator:** R. Nuñez Miller

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
11:00 - 11:20	<b>J. Lotz</b>	<b>ESR</b>	<b>Imaging Heart Failure: The Role of CT and MR</b> <ol style="list-style-type: none"><li>1. Current concepts of imaging the different stages of heart failure</li><li>2. Imaging surrogate parameters for diagnosis of subclinical and clinically overt heart failure</li><li>3. Prognostic imaging parameters for heart failure</li><li>4. Imaging concepts at the edge of clinical use: real-time imaging and more</li></ol>
11:20 - 11:40	<b>A. Flotats Giralt</b>	<b>Spain</b>	<b>Imaging Heart Failure: The Role of SPECT/ PET</b> <p>A basic understanding of the use of SPECT/ PET in patients with heart failure</p>
11:40 - 12:00	<b>A. Jain</b>	<b>AHA</b>	<b>Echocardiography: Advancements in Patient Imaging; has it Benefited Patient Care?</b> <ol style="list-style-type: none"><li>1. Role of echocardiography in management of heart disease</li><li>2. Advances made in technology</li><li>3. How to interpret the results in conjunction with other data and improve patient care</li></ol>
12:00 - 12:30	<b>Discussion</b>		
12:30 - 14:00	<b>Lunch Break</b>		

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## THURSDAY, 3 OCTOBER 2013

14:00 - 15:30      **SESSION 16: Analyse, Interpret,  
Quantify and Report**

**Chairperson:**      **A. Jain, AHA**  
**IAEA Coordinator:** **D. Paez**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
14:00 - 14:20	<b>G. De Puey</b>	<b>ASNC</b>	<b>Image Processing, Analysis and Interpretation</b> 1. To view systematically and analyse planar projection images and reconstructed tomograms to anticipate and recognize artefacts 2. To combine perfusion and functional information to recognize artefacts and improve diagnostic sensitivity and specificity
14:20 - 14:40	<b>P. A. Kaufmann</b>	<b>EANM</b>	<b>Quantification and Report</b> 1. To learn the most important methods of quantification in nuclear cardiology 2. To be able to appreciate the clinical impact of quantification
14:40 - 15:00	<b>N. Better</b>	<b>ANZSNM</b>	<b>How to Report a Nuclear Cardiology Study: Integrating all Information into a Final Report</b> To incorporate the clinical data, exercise data and scintigraphic data (perfusion and function) into a final report to answer the referring doctor's question
15:00 - 15:30	<b>Discussion</b>		
<b>15:30 - 16:30</b>	<b>POSTER REVIEW SESSION 3: with coffee/ tea/ refreshments</b>		
<b>Location:</b>	<b>Corridor A and B: Ground Floor</b>		
<b>IAEA Coordinator:</b>	<b>T. Pascual</b>		

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<i>Poster Reviewers</i>	<i>Designating Member State/ Organization</i>
<b>A. Bischof Delaloye</b>	Switzerland
<b>S. Merlano Gaitán</b>	Colombia
<b>F. Mut</b>	Uruguay
<b>S. E. Bouyoucef</b>	Algeria
<b>H. Bom</b>	ARCCNM
<b>E. Mishani</b>	Israel
<b>G. L. Dillehay</b>	SNMMI
<b>V. Kumar</b>	Australia
<b>A. Malhotra</b>	India

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## THURSDAY, 3 OCTOBER 2013

16:30 - 17:50      **SESSION 17: Read with Experts  
(RWE): Congestive Heart Failure**

**Chairperson:**      **G. De Puey, ASNC**  
**IAEA Coordinator:** **R. Kashyap**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
16:30 - 16:50	<b>A. Meave</b>	<b>Mexico</b>	<b>Congestive Heart Failure I</b> Analysis of the methodical approach in CHF clinical cases using MR & CT
16:50 - 17:10	<b>R. M. T. Giubbini</b>	<b>Italy</b>	<b>Congestive Heart Failure II</b> An expert opinion on the current use of imaging in congestive heart failure using SPECT
17:10 - 17:30	<b>E. Alexanderson Rosas</b>	<b>WFNMB</b>	<b>Congestive Heart Failure III</b> Use of PET/ CT for evaluation of endothelial and coronary function as well as myocardial flow
17:30 - 17:50	<b>A. Flotats Giral</b>	<b>Spain</b>	<b>Congestive Heart Failure IV</b> Current use of radionuclide imaging techniques in heart failure (viability PET vs. SPECT, MIBG)

## FRIDAY, 4 OCTOBER 2013

**08:30 - 09:00**      **SESSION 18: Clinical Risk Stratification:  
Role in Interpretation of Imaging Studies  
and Patient Management**

**Speaker:**            **G. Karthikeyan, India**

To highlight the influence of prior probability estimates, derived from clinical risk scores, on the interpretation of results of imaging studies, and their impact on patient management decisions

**09:00 - 10:30**      **SESSION 19: Quality of Practice**

**Chairperson:**        **H. Bom, ARCCNM**  
**IAEA Coordinator:** **M. Haji-Saeid**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
09:00 - 09:20	<b>K. Bacher</b>	<b>Belgium</b>	<b>Quality Control in Cardiac Nuclear Medicine and Cardiac CT</b> 1. To understand the principles of quality control in cardiac CT and cardiac nuclear imaging 2. To understand the role of the medical physicist in quality assurance in cardiovascular imaging
09:20 - 09:40	<b>E. Mishani</b>	<b>Israel</b>	<b>The Quality Control Process of MPI Agents</b> Understanding the rationale beyond quality assurance and control of MPI agents
09:40 - 10:00	<b>A. Bischof Delaloye</b>	<b>Switzerland</b>	<b>Quality of Practice: Clinical Audit</b> To develop a basic understanding of QA and clinical auditing in cardiovascular imaging
10:00 - 10:30	<b>Discussion</b>		
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10:30 - 11:00	<i>Coffee/ Tea Break</i>		

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## FRIDAY, 4 OCTOBER 2013

11:00 - 12:30      **SESSION 20: Hybrid Imaging**

**Chairperson:**      **A. Bischof Delaloye, Switzerland**

**IAEA Coordinator:** **A. Duatti**

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<i>Time</i>	<i>Presenter</i>	<i>Designating Member State/ Organization</i>	<i>Lecture Title and Objectives</i>
11:00 - 11:20	<b>B. Elison</b>	<b>ANZSNM</b>	<b>Hybrid Imaging: SPECT/ CT</b> <ol style="list-style-type: none"><li>1. How does the use of hybrid imaging improve accuracy/ specificity of the study?</li><li>2. Role of CT attenuation correction and its uses</li><li>3. Changing indications of SPECT/ CT imaging</li></ol>
11:20 - 11:40	<b>E. Alexanderson Rosas</b>	<b>WFNMB</b>	<b>Hybrid Imaging: PET/ CT and PET/ MR</b> To understand the main applications of hybrid techniques in heart studies
11:40 - 12:00	<b>P. A. Kaufmann</b>	<b>EANM</b>	<b>Image Fusion: Promises and Pitfalls</b> <ol style="list-style-type: none"><li>1. Hybrid imaging techniques</li><li>2. Involvement of different specialties and liability issues/ non cardiac findings</li></ol>
12:00 - 12:30	<b>Discussion</b>		

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**12:30 - 13:30      CLOSING CEREMONY**

**Chairpersons:**      **M. Dondi, IAEA**

**M. Haji-Saeid, IAEA**

**12:30 - 13:00      J. Mahmarian      ASNC**

**Highlights**

**13:00 - 13:30      M. Dondi      IAEA**

**Closing Ceremony and Poster Awards**

## POSTERS

All posters will be displayed on the ground floor of the corridors A and B for the entire duration of the conference.

Review Sessions are scheduled as follows:

### MONDAY, 30 SEPTEMBER 2013

15:30 - 16:30 POSTER REVIEW SESSION 1:

**Member State Experience with SPECT, PET, Echocardiography, CT and MRI in the Management of CVDs**

<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
103	<b>N. Khelassi-Toutaoui</b> A. Benali A. Toutaoui Z. Brahim et al.	Algeria	Cardiac CT Patient Dose in Algeria: First Results
104	<b>G. Malhotra</b> K. Panchal M. V. Reddy R. V. Asopa et al.	India	A Study of 4 Minutes versus 6 Minutes Protocol for Pharmacological Stress Testing using Adenosine for Myocardial Perfusion Imaging and Comparison with Echocardiography Findings
106	<b>F. Alam</b> R. Hossain A. K. Sarker	Bangladesh	Correlation & Agreement of Measurements of Left Ventricular Ejection Fraction by Radionuclide Methods & Echocardiogram
108	<b>M. J. Jofré Manieu</b>	Chile	Fluorodeoxyglucose in the Assessment and Therapy Control of an Atrial Angiosarcoma
109	<b>I. Kostadinova</b> S. Ivanova M. Garcheva	Bulgaria	Application of SPECT/ CT in Patients with Suspicion of a Vascular Graft Infection
111	<b>G. Bural</b> D. Torigian M. Houseni A. Alavi	Turkey	FDG Uptake in Large Arteries, Comparison between Genders and Correlation with Aging

<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
112	<b>P. Subramanyam</b> S. S. Palaniswamy	India	Implications of Persistent ST Segment Elevation in Q-Wave Anteroseptal Myocardial Infarction: Correlation with Myocardial Perfusion Gated SPECT
113	<b>P. Subramanyam</b> S. S. Palaniswamy	India	Is Exercise Induced ST Depression an Accurate Indicator of Viability in Infarct-related Artery? - A Myocardial Perfusion SPECT Study
114	<b>M. Garcheva-Tsacheva</b> I. Kostadinova	Bulgaria	Influence of Attenuation Correction on the Interpretation of Myocardial Perfusion Images
115	<b>A. Dustov</b> U. Kurbanov M. Mirshahi	Tajikistan	Dynamics of Myocardial Perfusion with MIBI in Patients with Coronary Heart Disease and Post-infarction Cardiosclerosis after Stem Cell Therapy
119	<b>D. Nariman</b> E. Purnomo	Indonesia	The Correlation between LVEF Gated SPECT with Hemodialysis, Calcium-Phosphorus Product and Parathyroid Hormone in Patients with Chronic Kidney Diseases
120	<b>A. S. Dogan</b> E. Izgi M. E. Erkan M. Asik et al.	Turkey	Correlation between Mean Platelet Volume and Myocardial Perfusion SPECT Parameters
121	<b>D. Sobic-Saranovic</b> Z. Petrasinovic V. Artiko V. Obradovic	Serbia	Evaluation of Gated SPECT MIBI Functional and Perfusion Abnormalities in Patients with Previous Inferior Myocardial Infarction
122	<b>O. Solodyannikova</b> N. Golovko L. Shevchuk	Ukraine	Possibilities of Echocardiography in Estimation of Cardiotoxicity of Chemotherapy in Cancer Patients
123	<b>X. Liu</b> J. Yuan C. Liu J. J. Zaknun	China	Comparison of Left Ventricular Ejection Fraction between Gated Myocardial Perfusion SPECT/ CT and Echocardiography in CHD Patients

<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
125	<b>V. Agarwal</b>	India	Does the Thallium Defect Pattern in Myocardial Perfusion Scintigraphy Depict the Level of Stenoses in Single Vessel CAD Involving the Left Anterior Descending Artery?
126	<b>S. Rahabi</b> M. Habbeche I. Ghedbane A. Khelifa et al.	Algeria	Myocardial Infarct in Young Patients: SPECT-MPI Findings
127	<b>S. E. Bouyoucef</b> S. Rahabi M. Habbeche I. Ghedbane et al.	Algeria	Brain Natriuretic Peptide Correlation Study with SPECT Stress and Rest MPI Findings
129	<b>S. Merlano Gaitán</b> E. Rodriguez R. Murgueitio	Colombia	Proportion of Patients with QRS Greater than 120 msec and Normal Phase Gated SPECT-MPI Image
130	<b>C. A. Stan</b> C. Chirion D. A. Stanescu D. C. Calin et al.	Romania	Evaluation of Myocardial Viability with Myocardial Perfusion Imaging in Patients with Left Ventricular Aneurysms
133	<b>H. N. Le</b> L. P. Vu H. M. Le.	Vietnam	Characteristics of Perfusion Defects, Left Ventricular Function and Prognostic Value of Early Dipyridamole Tc 99m Sestamibi Gated SPECT-MPI in Post-myocardial Infarction Patients without Primary Angioplasty
134	<b>G. Estrada Sánchez</b> J. Altamirano	Mexico	<sup>13</sup> N-ammonia Cardiac PET/ CT and Coronary CT Angiography
136	<b>P. S. Choudhury</b> A. K. Chaturvedi S. A. Rao N. Watanabe	India	Evaluation of a Single Utilization of Pulmonary Perfusion Scintigraphy in Patients with Suspected Pulmonary Embolism

<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
138	<b>K. R. Byanyima</b> ( <b>Presenter:</b> <b>J. S. Mugisha</b> )	Uganda	Diagnostic Reference Levels for Adult Postero-anterior Chest X-ray Examination in Kampala, Uganda: A Precursor for the National Diagnostic Reference Level
140	<b>G. Priyanka</b> L. Vikram	India	Indian Experience with Ultrafast Solid State Detector Dedicated Cardiac Camera in Myocardial Perfusion Imaging (MPI)
141	<b>A. F. Apostol</b>	Philippines	The Incremental Prognostic Value of SPECT-MPI in Predicting Cardiovascular Events in Patients with Metabolic Syndrome with Suspected CAD
142	<b>B. Caliskan</b>	Turkey	Referral Physicians' Indications for Myocardial Perfusion Scintigraphy
143	<b>C. T. Mesquita</b> S. Garcia J. Cunha de Azevedo A. R. N. Oliveira et al.	Brazil	Phase Analysis by Gated Tc-99m Sestamibi SPECT for Left Ventricular Dyssynchrony: Impact of Myocardial Ischemia
144	<b>A. P. Quinon</b>	Philippines	Correlation between Stress and Rest Left Ventricular Ejection Fraction in Gated Single - Photon Emission Computed Tomography (SPECT) with the Extent and Severity of Perfusion Abnormalities
146	<b>I. S. Bandong</b>	Philippines	Positron Emission Tomography versus Cardiac Magnetic Resonance Imaging for the Assessment of Myocardial Viability: A Meta-analysis
147	<b>J. I. Arma</b> A. Mollerach L. Paganini V. Jager	Argentina	PET/ CT: Uptake Pattern in Prosthetic Heart Valves
148	<b>C. Arroyo Castelán</b> J. Z. García R. M. Cuaxospa	Mexico	Utility of Myocardial Perfusion Studies for the Re-stratification of Risk of Ischemic Heart Disease and its Frequent Risk Factors
149	<b>I. Cho</b>	ARCCNM	Clinical Experience and Applications of Simultaneous PET/ MR Imaging in Cardiology



<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
150	<b>A. Elliyanti</b> A. H. S. Kartamihardja	Indonesia	A Discordance Results between Myocardial Perfusion Imaging with Angiography: A Case Report
152	<b>P. Orellana Briones</b> A. Haeger R. Jaimovich R. Baeza	Chile	Myocardial Perfusion Scintigraphy and CT Coronary Angiography in the Evaluation of Coronary Artery Disease
153	<b>M. Parmar</b>	India	Impact of Stress Induced <sup>201</sup> Tl Gated MPS on LV Dyssynchrony by Phase Analysis
154	<b>R. Rasheed</b>	Pakistan	Tc <sup>99m</sup> MIBI SPECT, Single Injection Dual Screening of IHD (Silent Myocardial Infarction) and Peripheral Arterial Disease (PAD) in Diabetes Mellitus
155	<b>M. Niella</b> D. Fino F. Gonzalez A. A. Astesiano et al.	Argentina	Capacity of Steady-state CMR Imaging Sequence for Myocardial Necrosis Detection
156	<b>F. Rodrigues Filho</b> J. Soares Jr M. Izaki M. C. P. Giorgi et al.	Brazil	Influence of a Low-carbohydrate Diet on the Assessment of Myocardial Viability with 18F Fluorodeoxyglucose PET: Comparison with the Euglycemic Hyperinsulinemic Clamp
159	<b>A. Sood</b>	India	Role of [13N] NH <sub>3</sub> -[18F] FDG PET/ CT in Predicting the Outcome in Patients with Coronary Artery Disease
161	<b>I. S. Bandong</b>	Philippines	Prognostic Value of Thallium ECG Gated Myocardial Perfusion Single - Photon Emission Computed Tomography (SPECT) Left Ventricular Parameters in Patients with Suspected Coronary Artery Disease
165	<b>R. Yudistiro</b>	Indonesia	Myocardial Perfusion Scan (MPS) Results in Asymptomatic Patients with Coronary Artery Disease (CAD) Risk Factors
166	<b>J. S. González Araya</b>	Chile	99m Tc-sestamibi Exercise SPECT and Follow-up in Patients Able to Reach 10 Metabolic Equivalent of Task (METs)

<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
167	<b>E. Lemos Pereira</b> L. Oliveira M. Fernandes P. Colarinha	Portugal	Feasibility of ECG Gated Myocardial Perfusion Studies: is it Worthy to Perform ECG Gated Imaging at Both Stress and Rest?
168	<b>M. Mouloudi</b> T. Bassaid N. Kriou N. Boubendir et al.	Algeria	Place of Cardiac Computed Tomography Angiography (CCTA) in Cardiac Pathology
170	<b>J. C. Manrique-Arias</b> V. M. Lara-Camacho M. Avila-Garcia A. Flores-Moreno et al.	Mexico	Preparation and Preclinical Evaluation of [ <sup>64</sup> Cu]Cu(II)-PTSM: A Tracer for Myocardial Perfusion

## POSTERS

TUESDAY, 1 OCTOBER 2013

15:30 - 16:30

POSTER REVIEW SESSION 2:

**Member State Experience with SPECT, PET,  
Echocardiography, CT and MRI in the Management  
of CVDs**

<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
116	<b>S. J. Gandhi</b> S. L. G. Praveen S. Padma S. S. Palaniswamy	India	Early Diastolic Dysfunction Detection by 16 bin Gated MPI-SPECT in End Stage Liver Disease Patients with Normal Myocardial Perfusion undergoing Pre-Transplant Cardiac Evaluation
117	<b>S. J. Gandhi</b> S. L. G. Praveen S. Padma S. S. Palaniswamy	India	Can MPI-SPECT Predict Abnormalities on Carotid/ Lower Limb Doppler USG for Extra Coronary Atherosclerotic Disease?
118	<b>S. S. Palaniswamy</b> S. Padma	India	Role of Myocardial Perfusion SPECT in the Prediction of Post-Surgery Recovery of Ischemic Mitral Regurgitation in Patients with Severe LV Dysfunction
171	<b>S. Sidibé</b> S. Traoré R. Diakité	Mali	Evaluation of Left Ventricular Function in Mali using a Radionuclide Method: Application, Methodology and Normal Values
172	<b>A. Puente</b> J. Morales G. Meléndez	Mexico	Gated SPECT Functional Assessment in Obese Patients
174	<b>P. K. Huynh</b> L. C. Vu X. Q. Truong C. X. Nguyen	Vietnam	Rest Thallium-201/ Stress Technetium-99m Sestamibi Dual-isotope Myocardial Perfusion Single - Photon Emission Computed Tomography in Detecting of Chronic Coronary Artery Disease
175	<b>K. Khan</b> A. Jielani M. Ayub N. Z. Abbasi et al.	Pakistan	Sodium Bicarbonate Augmented <sup>201</sup> Tl Rest/ Redistribution Myocardial Perfusion SPECT in Detecting Myocardial Viability
177	<b>S. Afroz</b>	Bangladesh	Gated SPECT Imaging for Evaluation of Coronary Artery Disease: Experience in a Developing Country

<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
178	<b>O. Diop</b> S. Seck-Gassama E. H. L. Bathily G. A. Kabre et al.	Senegal	Challenges in Nuclear Cardiology in Senegal
179	<b>M. Mbodj</b> O. Diop B. Ndong E. H. L. Bathily et al.	Senegal	Evaluation of Coronary Artery Disease using Stress ECG and Myocardial Perfusion Imaging in a Developing Country
180	<b>S. Seck-Gassama</b> O. Diop B. Ndong E. H. L. Bathily et al.	Senegal	Experience with Performing Myocardial Perfusion Imaging (MPI) in Ischemic Heart Disease in Senegal
183	<b>K. Myint</b>	Myanmar	Nuclear Cardiology Status in Myanmar
184	<b>G. Fadrugas</b>	Cuba	Prognostic Value of Myocardial Perfusion Test with 99m Tc-MIBI in Symptomatic and Asymptomatic Patients with Coronary Risk Factors
186	<b>M. Montecinos Santibanez</b> M. Mera S. Lapresa M. Casal et al.	Argentina	Usefulness of Assessment of Coronary Reserve Flow in a Patient with Coronary Multivessel Disease
187	<b>S. Voo</b> M. Kemna P. van Paassen J. W. Cohen-Tervaert et al.	Netherlands	<sup>18</sup> F-FDG PET/ CT Imaging for the Evaluation of Small - and Medium-size Vessel Vasculitis
188	<b>M. Havel</b> O. Kraft	Czech Republic	Comparison of Myocardial Perfusion SPECT Acquired with Linear Energy High Resolution Collimators (LEHR) and SMARTZOOM Collimators, Automatic Quantitative Software Differences

<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
189	<b>L. Henzlová</b> M. Kamínek I. Metelková M. Budíková et al.	Czech Republic	Combination of Myocardial Perfusion SPECT with Calcium Score Measurement Improved the Detection of Ischemic Cardiomyopathy
190	<b>A. Y. Chambi Cotrado</b>	Brazil	Myocardial SPECT/ CT: Evaluation of Calcium Score during Perfusion SPECT Adds Diagnostic and Prognostic Data
191	<b>C. C. Wiefels</b> S. Garcia J. Cunha de Azevedo A. Ribeiro et al.	Brazil	Evaluation of Cardiac Synchronism by Gated SPECT: Impact of Myocardial Fibrosis
192	<b>F. Faccio</b>	Argentina	Predicting Variables of Abnormal Myocardial Perfusion (MP) in Asymptomatic Patients
194	<b>C. J. Trauernicht</b> T. Kotze R. Steyn J. Boniaszczuk	South Africa	Phantom Study of Myocardial Perfusion SPECT/ CT
195	<b>K. Purbhoo</b>	South Africa	Efficacy of Full Fat Milk versus Diluted Lemon Juice to Reduce Interfering Infra-cardiac Activity of Tc-99m Sestamibi during Myocardial Perfusion Imaging
196	<b>C. Martínez</b> G. Solis D. López A. Puente	Mexico	Changes in Myocardial Perfusion in Patients undergoing Cardiac Resynchronization
198	<b>D. Vajauskas</b> A. E. Tamošiunas	Lithuania	Cardiac Adrenergic Innervation Imaging Assessed with SPECT: Imaging Beyond Planar Cardiac Adrenergic Innervation Scan
199	<b>O. Moskalets</b> Y. Kmetyuk O. Bondaruk A. Ashykhmin	Ukraine	Abnormalities of Myocardial FDG Uptake during Routine Oncology Positron Emission Tomography Studies

<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
200	<b>A. Al-Shammari</b> R. Ashkanani S. Alabsi S. Alenezi et al.	Kuwait	18F-FDG PET/ CT in Assessing Myocardial Viability: First Kuwait Experience
202	<b>I. Berrocal Gamboa</b> C. Fonseca M. Torres J. Salas et al.	Costa Rica	Prone Myocardial Perfusion SPECT Additional Imaging: Review of Results vs. Supine in the Interpretation
203	<b>N. Zafir</b>	Israel	Myocardial Perfusion Imaging with Half the Radiation Dose using Conventional Gamma Camera
204	<b>A. A. Chaname Abad</b>	Peru	Usefulness of the Study of Myocardial Perfusion with Dipyridamole in Clinical Practice
205	<b>M. R. Mititelu</b> C. Mazilu	Romania	Myocardial Perfusion Imaging in Patients with Diabetes Mellitus
206	<b>A. Haeger</b> R. Jaimovich P. Orellana J. C. Quintana et al.	Chile	Usefulness of SPECT/ CT in Myocardial Perfusion Studies
214	<b>R. W. Lopes</b> I. M. F. Pinto L. E. Mastrocola F. B. P. Alves	Brazil	Assessment of Suspected Coronary Arterial Disease using Myocardial Perfusion Scintigraphy (SPECT) Combined with Multi-detector Computed Tomography in a Brazilian Population
215	<b>J. P. Zhindon Pacurucu</b>	Chile	Importance of Adequate Quality Control of Left Ventricular Boundaries with Commercial Software in Gated Myocardial Perfusion SPECT: Analysis of Patients with Ventricular Dilatation and Myocardial Infarction
216	<b>L. T. D. P. Massardo Vega</b>	Chile	Assessment of Peripheral Neuropathy and Microalbuminuria in Coronary Asymptomatic Patients with Diabetes Mellitus Type 2 related with Myocardial Stress Perfusion Abnormalities

<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
217	<b>H. Shacham Suchman</b> A. Aharon V. Kulikov E. E. Sapir	Israel	FDG PET/ CT for Assessment of Abdominal Aortic Infection with and without Graft: Experience in a Single Tertiary Medical Center
218	<b>J. R. Gómez Garibo</b> J. Serna S. Paredes	Mexico	Myocardial Viability: Comparison between Studies Thallium/ SPECT and FDG PET
219	<b>M. Zdraveska Kochovska</b> V. Majstorov D. Pop Gjorceva M. Valvukis et al.	The Former Yugoslav Republic of Macedonia	Artefacts in SPECT Myocardial Perfusion
220	<b>H. N. Le</b> H. M. Le.	Vietnam	Value of Gated SPECT Myocardial Perfusion Imaging with and without Attenuation Correction in Diagnosis of Coronary Artery Disease
221	<b>B. Izic</b> A. Jakubovic Cickušić M. Sulejmanovic	Bosnia and Herzegovina	The Value of Tc-99m MIBI SPECT during Nitrate Administration in Assessment of Viable Myocardium in Patients with Dilated Cardiomyopathy
223	<b>I. Garty</b> J. Schurman	Israel	The use of Atropin in Exercise Myocardial Perfusion Scintigraphy: Can it Improve the Study Diagnosis Accuracy?
224	<b>L. O. Cabrera Rodriguez</b> A. Peix K. Padrón R. Carrillo et al.	Cuba	Value of Normal Myocardial Perfusion Images Compared with Non-coronary Stenosis Determined by Coronary Angiographic for One Year Prognosis
225	<b>L. O. Cabrera Rodriguez</b> K. Padrón A. Peix J. A. García et al.	Cuba	Is Mechanical Dyssynchrony related to Myocardial Viability? - Simultaneous Evaluation with Gated Single - Photon Emission Computed Tomography

<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
226	<b>M. A. Pineda Tovar</b> A. Ortega Ramirez J. S. Valencia Sánchez M. Calderón Abbo et al.	Mexico	Case Report: Gated Tetrofosmine Myocardial Perfusion Image Showing Light Ischemia in Presence of Multi-vessel CAD
228	<b>M. Makoso Baduka</b> F. Peeters V. Lukanda Mwamba V. Tsimba Tsasa et al.	Democratic Republic of the Congo	MRI: Diffusion Tensor Imaging using a Bi-Exponential Model
229	<b>R. J. Cerci</b> M. Zapparoli F. R. Farias S. S. Zier et al.	Brazil	Coronary Computed Tomography Angiography as a Gatekeeper for Invasive Angiography in Patients with Mild Ischemia by SPECT-MPI in a Developing Country
231	<b>A. C. Jiménez</b> A. Alfaro G. Castro K. Calvo	Costa Rica	False Positive in Myocardial Perfusion SPECT Due to Left Bundle Branch Block Artefact
232	<b>M. Kapitán Otero</b> A. Negrin D. Bia M. Lujambio et al.	Uruguay	Cardiac and Vascular Effects of Chronic Cocaine Abuse in Young Asymptomatic Subjects
234	<b>R. Gutterres</b> A. Oliveira P. Crisóstomo M. Cardona et al.	Brazil	Identification of Cardiac High Risk Female Patient Profile
235	<b>R. Gutterres</b> A. Oliveira P. Crisóstomo M. Cardona et al.	Brazil	Assessment of Attenuation Correction Effects in Image Quality of Myocardial Perfusion Scintigraphies



<i>No of Poster IAEA-CN-202-</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
236	<b>R. Gutterres</b> A. Oliveira N. Monerat M. Cardona et al.	Brazil	Breast Attenuation Impact on Anatomic Functional Correlation of Myocardial Perfusion Scintigraphy and Coronary Angiography
237	<b>F. Mut</b> E. Besada A. Beltrán A. Panzacchi et al.	Uruguay	Myocardial Viability Studies with FDG PET Associated with Multislice CT Coronary Angiography: Initial Experience in Uruguay
239	<b>A. N. K. Al-Ibraheem</b> Z. Alrababa	Jordan	Evaluation of Left Ventricle Ejection Fraction in Oncologic Patients: Comparison of Resting Planar Radionuclide Ventriculography and Resting Gated Myocardial Perfusion SPECT Techniques
240	<b>P. Mohan</b> U. Kaul R. Gupta H. Mahajan	India	A Comparative Analysis of Myocardial Perfusion on Gated SPECT versus Coronary Atherosclerosis and Calcium Score on 64-Slice CT

## POSTERS

THURSDAY, 3 OCTOBER 2013

15:30 - 16:30 POSTER REVIEW SESSION 3:

**Member State Experience with SPECT, PET,  
Echocardiography, CT and MRI in the Management of CVDs**

**Use of Hybrid Imaging or Integrated Imaging in CVD  
Management**

**Radiopharmaceutical Production using Cyclotrons and  
Radionuclide Generators - Including Good Manufacturing  
Practice and Quality Assurance Aspects - with Special  
Reference to Imaging Agents for CVDs**

**Issues of Medical Physics, Instrumentation and Image  
Processing and Analysis related to CVD Imaging**

**Quality Management, Quality Control, Quality Assurance  
and Audits in Integrated Medical Imaging and Nuclear  
Medicine Practice**

**Radiation Protection for Personnel and Dose Reduction  
for Patients**

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***Member State Experience with SPECT, PET,  
Echocardiography, CT and MRI in the Management of  
CVDs***

241	<b>I. Tahirou</b> I. D. J. Moussa A. Ada I. Djeomboro et al.	Niger	Contribution of Myocardial Perfusion Imaging in Cardiovascular Disease in Countries with Limited Resources
244	<b>E. Slobina</b> N. Maroz- Vadalazhslaya	Belarus	Imaging-based Cancer Patient Management by using US and MRI in Oncologic Imaging of Cardiovascular System
245	<b>A. S. Dogan</b> M. E. Erkan M. Asik A. Yilmaz et al.	Turkey	Metabolic Syndrome Indicates Larger Stress Defect Score on Gated SPECT

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246	<b>A. S. Dogan</b> M. Asik M. E. Erkan A. Yilmaz et al.	Turkey	Relationship between Insulin Resistance and Myocardial Perfusion SPECT Parameters
247	<b>A. S. Dogan</b> M. E. Erkan M. Asik A. Sarita et al.	Turkey	Tc-99m Setamibi Detects Carbon Monoxide Poisoning
248	<b>N. Maroz- Vadalazhslaya</b> O. L. Polonetcki E. L. Slobina R. A. Sakovitch	Belarus	MRI and Cardiac Ultrasound Utilities in Patients with Acute Myocardial Infarction and No-reflow Phenomena Early after Invasive Coronary Reperfusion
249	<b>M. Agolti</b> A. Amin A. Rodriguez	Argentina	Characterization of Patients Identified as High Risk in Gated SPECT Myocardial Perfusion Imaging
250	<b>M. H. G. Baghdadi</b>	Iraq	The Role of CT in Diagnosing Congenital Heart Diseases in Iraq
251	<b>A. S. A. Al-Breesam</b>	Iraq	The Acute in Hospital Outcomes of PCI in Ibn-Albetar Hospital
252	<b>S. Synefia</b>	Greece	Index of Quantification of Volume Differences in 3D SPECT Stress/ Rest Images
256	<b>A. Klaipetch</b> S. Namwongprom T. Kaewchur W. Teeyasoontranon et al.	Thailand	Myocardial Perfusion Abnormality on SPECT-MPI and Abdominal Aortic Calcification Detected by DXA
257	<b>S. S. H. Mohamed</b> H. Al Duhli A. K. Maher Ali	Oman	Correlation of Myocardial Perfusion Imaging and Computed Tomography Coronary Angiography for the Assessment of Coronary Arteries Disease: SQUH Experience

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259	<b>M. Dereli</b>	Turkey	Conventional Angiography Imaging of Post-traumatic Pseudoaneurysm of the Superficial Femoral Artery
260	<b>L. N. Singh</b> M. Tamang R. Shaha Chaudhary	Nepal	Prospect of Cardiac Imaging Necessity in B. P. Koirala Memorial Cancer Hospital
263	<b>B. C. Bui</b> C. C. Gia M. A. H. Nguyen S. T. Vo et al.	Vietnam	Using Non-invasive Assays to Improve Detection Of Oxidized Low Density Lipoproteins (Ox LDDL) in Atherosclerosis
264	<b>H. Al Naemi</b> E. M. Antar I. Duhaini S. Manaa	Qatar	Patient Peak Skin Dose and Dose Area Product from Interventional Cardiology Procedures

***Use of Hybrid Imaging or Integrated Imaging in CVD Management***

132	<b>R. A. Rasata</b>	Madagascar	Comparison of Left Ventricular Ejection Fraction in Heart Failure by Echocardiography and Radionuclide Ventriculography
135	<b>J. Altamirano Ley</b> G. Estrada	Mexico	Multimodality Imaging for Assessment of Heart Failure Patients in a PET/ CT Center: <sup>13</sup> N-ammonia, <sup>18</sup> FDG, Coronary CT Angiography and Calcium Score
139	<b>F. Z. T. Huber</b> W. E. F. M. Alves M. J. Santos E. T. Rocha	Brazil	Radionuclide Ventriculography in the Evaluation of Cardiotoxicity by Chemotherapy
145	<b>A. Morales, Jr.</b> A. F. Samiling	Philippines	Acceptance Testing of a Hybrid Operating Room in the Philippines
162	<b>H. K. A. Mahmoud</b>	Egypt	Automated Diagnosis of Nuclear Cardiac Images using Advanced Digital Image Processing Techniques

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173	<b>A. S. Pallewatte</b>	Sri Lanka	Evaluation of Integrated Medical Imaging for Congenital Aorto-cardiac Anomalies in Tertiary Referral Centers in Sri Lanka (with Special Emphasis on Paediatric CT and Radiation Exposure)
176	<b>Z. M. Jawa</b> A. Isa S. Lawal	Nigeria	Potential Benefits of Equilibrium Radionuclide Angiography in HIV-related Cardiac Disorders
201	<b>H. Bom</b> H. S. Kim S. G. Cho	ARCCNM	Correlation of Myocardial Blood Flow and Flow Reserve to Anatomical Lesions using Hybrid PET/ CT
238	<b>A. S. Naojee</b>	Mauritius	Establishing Nuclear Cardiology Practice with Integrated Imaging in Mauritius and the Difficulties Encountered
243	<b>M. F. Bozkurt</b> E. L. Ergün Ö. Ugur	Turkey	Value of Hybrid Imaging-based Attenuation Correction in the Diagnostic Work-up of Myocardial Perfusion Scintigraphy
253	<b>N. Ben Rais</b>	Morocco	Perfusion Scintigraphy and Hybrid Imaging in the Diagnosis of Pulmonary Embolism in Pregnancy
254	<b>N. R. Stevenson</b> G. Gonzales J. Simon S. Srivastava et al.	Canada	Manufacturing and Integrated Medical Imaging of High Specific Activity [Sn-117m]-Annexin in Cardiovascular Disease
261	<b>M. A. A. Abu Saiba</b>	Iraq	Update of Integrated Medical Imaging in Cardiovascular Diseases

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***Radiopharmaceutical Production using Cyclotrons and Radionuclide Generators - Including Good Manufacturing Practice and Quality Assurance Aspects - with Special Reference to Imaging Agents for CVDs***

105	<b>A. Malhotra</b> K. Praveen C. D. Patel B. S. Pathania	India	Production & Quality Assurance of <sup>13</sup> NH <sub>3</sub> Ammonia in a Busy PET/ CT Centre for Myocardial Viability Studies
181	<b>R. S. Senghor</b> M. Mbodj S. Seck-Gassama	Senegal	Challenges in Radiopharmacy in Nuclear Cardiology in Senegal
182	<b>R. S. Senghor</b> L. Dieng M. Diarra S. Seck-Gassama	Senegal	Performance of the Ultratechnekow Generator in Nuclear Cardiology in Senegal
242	<b>E. H. Has</b> A. Tanrikut A. N. Yuksel S. Unal et al.	Turkey	TAEA-PAF Produced Radioisotopes and Radiopharmaceuticals for Cardiovascular Diseases

***Issues of Medical Physics, Instrumentation and Image Processing and Analysis related to CVD Imaging***

212	<b>P. Orellana Briones</b> R. Jaimovich L. Marine A. Krammer et al.	Chile	Sn117m-DOTA-Annexin as a Novel Vulnerable Plaque Tracer: First Time in Humans Trial
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<b>Quality Management, Quality Control, Quality Assurance and Audits in Integrated Medical Imaging and Nuclear Medicine Practice</b>			
102	<b>N. Khelassi- Toutaoui</b> A. Merad A. Toutaoui Z. Brahimi et al.	Algeria	Patient Dose Assessment in Interventional Cardiology Procedures in Algeria
131	<b>N. Ben Rais</b>	Morocco	Improvement of Nuclear Cardiology in Morocco
158	<b>D. H. Salama</b> A. M. Badawi	Egypt	Image Quality and Radiation Dose using Low Tube Kv in ECG Gated 64 Slice CT Coronary Angiography
163	<b>A. Hovhannesian</b> D. Ohanyan A. Khachatryan	Armenia	Myocardial Quantitative Gated SPECT in Optimization of Device and Patient Selection
169	<b>S. Moussouni</b> T. Bassaïde H. Mahmoudi N. Merzougui et al.	Algeria	Pulmonary Embolism: Diagnostic Strategies
193	<b>A. Skopljak- Beganovic</b> B. Hanic A. Beganovic M. Gazdi -Šantic et al.	Bosnia and Herzegovina	Estimation of Effective Doses for Patients in Interventional Cardiology
197	<b>A. M. Prata Jeronimo</b> A. I. Santos I. Henriksson H. Pereira	Portugal	Appropriate use Criteria for Cardiac Radionuclide Imaging: Compliance and Relationship to Clinical Impact

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207	<b>E. Huanca Sardinias</b> M. R. Vásquez Ibáñez A. Zambrana Zelada M. Torrez Cabero	Bolivia	Comparison of Ejection Fraction Left Ventricular Obtained by Method Manual and Automatic in the Nuclear Medicine Institute Sucre-Bolivia
208	<b>I. Lawal</b> Y. Onimode B. O. A. Osifo	Nigeria	Efficiency of In-vivo Labeling of RBCs for MUGA Scans at Ibadan, Oyo-State, Nigeria
210	<b>Y. A. Onimode</b> B. O. A. Osifo	Nigeria	Validation of LVEFs from Gated Cardiac Blood Pool Studies at Ibadan
211	<b>Y. Onimode</b> M. D. T. Vangu B. O. A. Osifo	Nigeria	Pattern of Clinician Referral of Patients for Gated Cardiac Blood Pool Studies
222	<b>I. Garty</b>	Israel	The Challenge of Diagnosing Coronary Heart Diseases (CHD) in Women: the Special Role of ECG Gated SPECT Myocardial Scintigraphy (MS)
227	<b>S. A. Rogan</b> A. Balenovic	Croatia	18F-FDG Cardiac PET: Good or Bad Patient Preparation for Good Image Quality: How to Know it in Advance
255	<b>U. Vutrapongwatana</b> T. Chaiwatanarat A. Krisanachinda S. Sirisalipoch et al.	Thailand	Quality Management Audit in Nuclear Medicine Practices (QUANUM) Experience at King Chulalongkorn Memorial Hospital
262	<b>A. Doruyter</b> A. Ellmann J. Warwick J. Holness	South Africa	Drafting and Implementing a Procedure Guideline for Investigation of Hibernating Myocardium in a Resource-constrained Setting

***Radiation Protection for Personnel and Dose Reduction for Patients***

137	<b>L. Price</b> A. Pascoal	United Kingdom	Radiation Protection for Personnel during Chronic Total Occlusion Recanalization
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209	<b>I. Lawal</b> Y. Onimode B. O. A. Osifo	Nigeria	Safety and Risk Assessment for Personnel and Patients in In-vivo Labeling for MUGA Scans at Ibadan, Oyo-State Nigeria

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## **PARTICIPATION IN IAEA SCIENTIFIC MEETINGS**

Governments of Member States and those organizations whose activities are relevant to the meeting subject matter are invited to designate participants in IAEA scientific conferences and symposia. In addition, the IAEA itself may invite a limited number of scientists as invited speakers. Only participants designated or invited in this way are entitled to present papers and take part in the discussions.

Representatives of the press, radio, television or other information media and members of the public, the latter as 'observers', may also be authorized to attend, but without the right to take part in the proceedings.

Scientists interested in participating in any of the IAEA meetings should request information from the Government authorities of their own countries, in most cases the Ministry of Foreign Affairs or national atomic energy authority.

## **FORTHCOMING SCIENTIFIC MEETINGS SCHEDULED BY THE IAEA**

### **2013**

International Conference on Topical Issues in Nuclear Installation Safety  
21-24 October 2013, Vienna, Austria

International Conference on the Safety and Security of Radioactive Sources: Maintaining the Continuous Global Control of Sources throughout their Life Cycle  
27-31 October 2013, Abu Dhabi, UAE

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For information on forthcoming scientific meetings,  
please consult the IAEA web site:  
<http://www-pub.iaea.org/iaeametings/>  
IAEA web site: <http://www.iaea.org/>

### **2014**

International Experts' Meeting on Radiation Protection after the Fukushima Daiichi Accident (IEM 6)  
17-21 February 2014, Vienna, Austria

International Experts' Meeting on Severe Accident Management in Light of the Accident at the Fukushima Daiichi Nuclear Power Plant (IEM7)  
17-21 March 2014, Vienna, Austria

International Conference on Challenges Faced by Technical and Scientific Support Organizations (TSO) in Enhancing Nuclear Safety and Security  
7-11 April 2014, Beijing, China

International Conference on Human Resource Development for Introducing and Expanding Nuclear Power Programmes: Building and Sustaining Capacity  
12-16 May 2014, Vienna, Austria

International Symposium on Understanding Moderate Malnutrition of Children under Five Years of Age for Effective Interventions  
27-29 May 2014, Vienna, Austria

International Symposium on Uranium Raw Material for Nuclear Fuel Cycle: Exploration, Mining, Production, Supply and Demand, Economics and Environmental Issues  
16-20 June 2014, Vienna, Austria

International Conference on Advances in Nuclear Forensics: Countering the Evolving Threat of Nuclear and Other Radioactive Material out of Regulatory Control  
7-10 July 2014, Vienna, Austria

Symposium on International Safeguards  
17-24 October 2014, Vienna, Austria

25<sup>th</sup> Fusion Energy Conference (FEC2014)  
13-18 October 2014, St. Petersburg, Russian Federation

International Symposium on Nuclear and related Techniques for Food Integrity, Traceability, Safety and Quality  
10-14 November 2014, Vienna, Austria

International Conference on Occupational Radiation Protection  
1-5 December 2014, Vienna, Austria

## NOTES