



Invitation

It is a pleasure for the organising committee to invite participants to the ISIAME 2016 conference (Industrial Symposium on the Applications of the Mössbauer Effect) to be held in Cape Town South Africa from 4th – 8th September 2016.

The Symposium is organised by the North-West University Potchefstroom Campus, the University of Johannesburg, Doornfontein Campus and Sasol, South Africa. It follows eight previous successful Symposia and will be open to experts, scientists, practitioners and engineers with an interest in recent developments in the field of the Mössbauer Effect and its applications.

Invited lectures, oral presentations and poster sessions will form the bulk of the programme with an exciting social programme to ensure a scientific and well balanced symposium.



Frans Waanders
Frans Waanders
(Chair ISIAME 2016)
Professor and Director
School of Chemical and Minerals
Engineering
North-West University
Potchefstroom
South Africa

Scientific Programme

The mandatory aims of the ISIAME Symposia:

1. Stimulate the attention of researchers towards the industrial applications of the Mössbauer spectroscopy.
2. Intensify contacts and collaborations between the industrial and academic worlds.
3. Encourage all types of developments in the technology of Mössbauer spectroscopy.
4. Stimulate industrial laboratories to include Mössbauer spectroscopy equipment in their analytical and diagnostic systems.
5. Allow the exchange of results on innovative materials having potential technological applications.
6. Address the attention of the researches towards the potentialities of new techniques which can be fruitfully utilised combined with Mössbauer spectroscopy for solving technical problems.

Topics:

This is a tentative topic list. The organisers would like to continue to discuss publicly on the symposium topics so that they can cover each area of the industrial applications of Mössbauer spectroscopy. In addition, the organisers also suggest we should appoint a Convener to each topic. The Convener should have full information on the topic. If you would like to be a Convener of a topic, please let us know.

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|---------------------------------------|---|
| T1 Catalysis | T8 Electrochemistry Batteries |
| T2 Energy (coal, oil, nuclear, solar) | T9 Applications using Synchrotron Radiation |
| T3 Environment | T10 Nanotechnology |
| T4 Magnetic Materials | T11 Metals & Alloys |
| T5 Biology & Biomedicine | T12 Methodology & Instrumentation |
| T6 Mineralogy | T13 Surface Modification |
| T7 Corrosion | |

Committees

Organising Committee (South Africa):

Frans Waanders - North-West University
Antoine Mulaba-Bafubiandi - University of Johannesburg
Lonzeche Lodya – Sasol, Group Technology
Krish Bharuth-Ram - SAAO

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Thao Zhang (CH)	



Important Dates

Abstract Submission & registration opens	Open
Abstract submission deadline	15th Jun 2016
Abstract acceptance notification	20th Jul 2016
Deadline early bird registration & payment	01st Jul 2016
Full article submission deadline	02nd Sep 2016
Conference	04th – 08th Sep 2016

Invited Speakers

ISIAME
2016

Károly Lázár Head, Nuclear Chemistry - Mössbauer spectroscopy team, Research Centre for Energy, Hung. Acad. Sci, Hungary. (Topic 1: Catalysis)

Junhu Wang Mössbauer Effect Data Center (MEDC), Dalian Institute of Chemical Physics (DICP), Chinese Academy of Sciences (CAS) (Topic 1: Catalysis)

Guodong Zheng. Lanzhou Center for Oil and Gas Resources, Institute of Geology and Geophysics, Chinese academy of Sciences. Topic: **Implications of Mossbauer Effect in Petroleum Systems** (Topic 2: Energy(coal,oil,nuclear,solar))

Virender K. Sharma. Environmental and Occupational Health School of Public Health Texas A&M University, USA. (Topic 3: Environment Radiation)

Michael Reissner. Institute of Solid State Physics, Vienna University of Technology, Wien, Austria. Topic: (Topic 4, Magnetic Materials)

J.M. Greneche. The Institute of Molecules and Materials of Le Mans, France Topic: **Magnetic nanoarchitectures (nanoparticles, hollow nanospheres and nanocomposite) to be applied in medicine** (Topic 5: Biology and Biomedicine or Topic 10: Nanotechnology)

Goestar Klingelhofer. Johannes Gutenberg-Universität Mainz, Germany Topic: **In-Situ Mössbauer and Pixe Analysis of Planetary Surfaces and terrestrial materials** (Topic 6: Mineralogy)

Vadim Ksenofontov. Johannes Gutenberg-Universität Mainz Fachbereich Chemie, Pharmazie u Geowissenschaften Institut für Anorganische Chemie und Analytische Chemie Mainz, Topic: **Application of Synchrotron Radiation in Study of Novel Superconductors** (Topic 9, Applications using Synchrotron Radiation).

Mangui Han. National Engineering Research Center of Electromagnetic Radiation Control Materials, University of Electronic Science and Technology of China, Chengdu, China. Topic: **Optimization the nanostructures of Fe-based nanocrystalline flakes by using Mossbauer measurements (Topic 10: Nanotechnology)**

Stanislaw M. Dubiel. AGH University of Science and Technology, Faculty of Physics and Computer Science, Krakow, Poland. Topic: **Microscopic phenomena underlying macroscopic properties of Fe-Cr alloys.** (Topic 11: Metals & Alloys)

John Stevens. Professor Emeritus, University of North Carolina at Asheville, Honorary Director, Mössbauer Effect Data Center. Topic: **Potential Future of the Industrial Applications of the Mössbauer Effect.** (Topic 12: Methodology)

Venkat Dasireddy. *Applications of Mössbauer spectroscopy in heterogeneous oxidation catalysis*
*Venkata D. B. C. Dasireddy^{*1}, Darko Hanzel², Krish Bharuth-Ram^{3,4} and Blaž Likozar¹*

Krish Bharuth-Ram. Physics Department, Durban University of Technology, South Africa. School of Chemistry and Physics, University of KwaZulu-Natal. Materials Research Division, iThemba LABS, South Africa Topic: **Search for ferromagnetic behaviour in TM implanted oxides.**

Advisory Board

<i>Argentina</i>	Francisco H. Sanchez
<i>Austria</i>	Michael Reissner
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<i>USA</i>	Ercan Alp Eckard Münek

Venue & Accommodation

ISIAME 2016 will be held at Lagoon Beach Hotel and Spa.

Lagoon Beach Hotel and Spa is situated on the beautiful Lagoon Beach, just 7km from Cape Town's central business district and the V&A Waterfront. Just a short 20km will get you to and from Cape Town International Airport, 2km from the renowned Milnerton Golf Course, 5km from Canal Walk and about 1 hour drive from the spectacular winelands of Stellenbosch and Franschhoek.

The Hotel has 200 sophisticated en-suite bedrooms and suites, 13 conference venues, 3 world class restaurants and a magnificent view of Table Mountain.

Registration Information

Registration Fees:

	Before 01 st July 2016	After 01 st July 2016
Full Registration	EUR 450	EUR 500
MEDC Affiliated Registration *	EUR 400	EUR 450
Student & Retired Registration *	EUR 300	EUR 350
Accompanying Person *	EUR 150	EUR 150

The full registration fee covers the attendance of the sessions of the conference, welcome party, lunch, coffee breaks during the conference, dinners, winelands tour and cultural dinner with show. A conference bag, South African souvenir, the abstract book and conference proceedings (special issue of the Hyperfine Interactions) is also included.

*Reduced rates are offered for the MEDC affiliates, students and retired participants. Their registration fees also cover the same items as stated above.

**Accompanying persons may participate in the welcome party, the wineland tour and cultural dinner with show. Lunch, coffee breaks and dinners are also included.

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ISIAME 2016



Social Programme & Tours

You may choose to take the opportunity to visit the tourist attractions in Cape Town before or after the scientific programme.

Take the slow rotating cable car which climbs to the mountain's flat top to experience the sweeping views of the city. Head to the harbour and via boat explore Robben Island, the notorious prison that once held Nelson Mandela, now a living museum. Visit the most south-westerly tip of Africa, covered in endemic fynbos and home to breathtaking bays, beaches and rolling green hills of Cape Point. Shop till you drop at Canal walk or the V&A waterfront, or do a cheese and wine tasting at any of the spectacular vineyards.

You will be able to personalise your own tours based on your interests, budget and time available.

ISIAME 2016 have organised a social programme for participants and accompanying persons. The programme will include a wine tasting and vineyard tour as well as a local traditional dinner and show showcasing South Africa's vast culture.

Contact

For more information, please visit www.isiame.com

Scientific Information, & Abstracts:

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