

	Sun 4 Sept	Mon 5 Sept	Tue 6 Sept	Wed 7 Sept	Thu 8 Sept
8:30	Registration Townhouse hotel	Registration	Whole day Cape tour	Invited talk 6	Forum
9:00		Opening Session		Invited talk 7	
9:30		Invited talk 1			
10:00		Coffee		Coffee and Photo	
10:30		Invited talk 2		Oral 7	
11:00		Invited talk 3		Oral 8	
11:30				Oral 9	
12:00		Oral 1		Oral 10	Lunch
12:30		Lunch		Lunch	
13:00					
13:30		Invited talk 4		Invited talk 8	
14:00		Invited talk 5		Invited talk 9	
14:30				Invited talk 10	
15:00		Oral 2			
15:30		Coffee		Coffee	
16:00	Reception iThemba labs	Oral 3	Oral 11		
16:30		Oral 4	Oral 12		
17:00		Oral 5	Poster session and drinks		
17:30		Oral 6			
18:00		ISIAME SEC meeting			
18:30					
19:00			Dinner		

**Invited talks:** Topics: T1, T4, T5, T9, T10 (2), T11 (2), T12

I-1: Vadim Ksenofontov Sergii I. Shylin: Application of synchrotron radiation in study of novel superconductors

I-2: J. Galazka-Friedman A. Friedman: The impact of Mössbauer spectroscopy on the understanding of mechanisms of neurodegeneration in Parkinson's disease

I-3: F. Sayed, Z. Nehme, K. Brymora, N. Yaacoub, Y. Labaye, F. Calvayrac, J.M. Greneche: Magnetic properties of Fe-based nanoparticles for biomedical applications

I-4: Xuning Li, Junhu Wang: Mössbauer studies on the mechanism of Fenton-like reaction catalyzed by Prussian blue analogues and as-derived oxides

I-5: H. P. Gunnlaugsson: Emission Mössbauer spectroscopy at ISOLDE/CERN

I-6: Krish Bharuth-Ram: Search for ferromagnetic behaviour in TM implanted oxides

I-7: S. M. Dubiel: Microscopic phenomena underlying macroscopic properties of Fe-Cr alloys.

I-8: E. Kuzmann, L. da Silva, S. Stichleutner, M. El-Sharif, Z. Homonnay, Z. Klencsár, L. Sziráki, C.U. Chisholm and Gy.Lak Mössbauer and XRD study of Al-Sn lined steel bimetal alloy

I-9: V.V. Popov: Emission Mössbauer spectroscopy of grain boundaries in ultrafine-grained materials processed by severe plastic deformation

I-10: Michael Reissner, Klaudia Hradil, Walter Steiner, Magnetic and electrostatic hyperfine interactions in FeSb<sub>2</sub>

**Oral talks:** Topics: T3, T4 (2), T6 (2), T8 (3), T10, T11, T12 (3)

O-1: Moulay Tahar Sougrati, Jean-Claude Jumas and Lorenzo Stievano. Review of Mössbauer spectroscopy contribution to design of electrochemical energy conversion and storage systems

O-2: V. Masondo, K. Bharuth-Ram<sup>2</sup>, H. Masenda, T. E. Møhlhol, C. Ronning, H. P. Gunnlaugsson, K. Johnston, P. Krastev, D. Naidoo, P. Qi, J. Schell, A. Tarazaga, I. Unzueta, G. Langouche, R. Mantovan, H. P. Gíslason, S. Ólafsson. Fe sites and interactions in C implanted ZnO single crystals studied with Emission Mössbauer Spectroscopy following implantation <sup>57</sup>Mn\*

O-3: Guodong Zheng, Xiangxian Ma, Wang Xu, Yang Li, Limin Ji, Baoguang Shi. Iron speciation by Mössbauer spectroscopy and its implications in various studies on petroleum geosciences

O-4: A. Ladam, L. Aldon, P.E. Lippens, C. Cenac-Morthe, J. Olivier-Fourcade and J.-C. Jumas. How to select a tin based negative electrode for Li-ion batteries: application to Ti-Ni-Sn based composites.

O-5: Raphaël P. Hermann, Moulay T. Sougrati, Ali Darwiche, Laure Monconduit, Lorenzo Stievano, Richard Dronskowski, Xiaohu Liu, Abdelfattah Mahmoud, Marcus Herlitschke, Aamuel Jouen, Transition metal carbodiimides, a new class of anode materials

O-6: Z. Klencsár, K. Kovács, F. Fodor, Á. Solti, Gy. Tolnai, Z. Homonnay, E. Kuzmann. Manufactured nanoparticles: potentially toxic agents or nutrient reservoirs for plants?

O-7: Antoine F. Mulaba-Bafubiandi and Niclette Eloko Energy source in macadamia nut shell used in artisanal claybrick making in Dididi village (Venda, Limpopo, South Africa)

O-8: Hilary Masenda, Deena Naidoo, Krish Bharuth-Ram, Haraldur P. Gunnlaugsson, Karl Johnston Roberto Mantovan, Torben E. Møhlholt, Mehluli Ncube, Sveinn Ólafsson, Seyedmohammad Shayestehaminzadeh, Hafliði P. Gíslason, Guido Langouche, Gerd Weyer and the ISOLDE Collaboration. Fe behaviour in InN studied by Emission Mössbauer spectroscopy

O-9: E. Kuzmann, L. da Silva, S. Stichleutner, M. El-Sharif, Z. Homonnay, Z. Klencsár, L. Sziráki, C.U. Chisholm and Gy.B. Lak. Mössbauer and XRD study of hot dip galvanized alloy

O-10: Jakub Navarik, Petr Novak, Jiri Pechousek, Jiri Tucek: The scintillation based Mössbauer detection system optimization.

O-11: Manfred Deicher and the ISOLDE Collaboration. Perturbed angular correlation - a complementary technique to Mössbauer effect in the study of materials for industrial applications

O-12: H. P. Gunnlaugsson. Annealing studies in Emission Mössbauer Spectroscopy using short lived isotopes

**Posters:** Topics: T1, T4, T5, T6 (2), T8, T10 (2), T11 (2)

P-1: Ayyakannu Sundaram Ganeshraja, Junhu Wang, Kiyoshi Nomura, Ferromagnetic Sn-TiO<sub>2</sub> Nanocrystals: <sup>119</sup>sn Mössbauer and photocatalytic studies

P-2: C. L. Ndlangamandla, K. Bharuth-Ram, B. D. Ngom and M. Maaza. Ru doping of hematite nanorods tracked with XRD and Mössbauer spectroscopy

P-3: T. E. Mølholt, H. P. Gunnlaugsson, K. Johnston, R. Mantovan, J. Röder, V. Adoons, A. M. Gerami, H. Masenda, Y. A. Matveyev, M. Ncube, I. Unzueta, K. Bharuth-Ram, H. P. Gislason, P. Krastev, G. Langouche, D. Naidoo, S. Ólafsson, A. Zenkevich, ISOLDE Collaboration. Charge states and lattice sites of dilute implanted Sn in ZnO

P-4: Luiz Fernando França, Kelly Grace Magalhães, Francisco Assis de Oliveira Nascimento, Erno Kuzmann, Vijayendra Kumar Garg, Aderbal Carlos de Oliveira. A portable, diagnostics system for the Zika virus

P-5: Deena Naidoo, Mehluhi Ncube, Hilary Masenda and Harshna Jivan. Annealing studies of holmium substituted bismuth ferrite

P-6: J. Galazka-Friedman, M. Woźniak, P. Duda, Ł. Karwowski, S.D. Forder. Could Mössbauer spectroscopy be an alternative method of the preliminary classification of the ordinary chondrites?

P-7: J.-C. Jumas, N. Bibent, P.E. Lippen<sup>a</sup>, J. Olivier-Fourcad<sup>a</sup>, T. Azi<sup>b</sup>, F. Cueva<sup>b</sup> and M. Latroche. Ni-Sn-Si/C based composite as negative electrode for Li-ion batteries <sup>119</sup>Sn Mössbauer *operando* study

P-8: J. Kohout, T. Kmječ, D. Kubániová, L. Kubíčková, K. Závěta P. Brázda, M. Klementová, E. Šantavá, A. Lančok. The magnetic transition in ε-Fe<sub>2</sub>O<sub>3</sub> nanoparticles: Mössbauer spectroscopy

P-9: Changseok Han, Libor Machala, Ivo Medrik, Radina P. Kralchevska, Dionysios D. Dionysiou. Degradation of the cyanotoxin microcystin-LR using nanoparticulate Fe<sub>2</sub>O<sub>3</sub> photocatalysts under visible light illumination

P-10: R. Konieczny, R. Idczak and J. Chojcan. A study of thermodynamic properties of dilute Fe-Au alloys by the <sup>57</sup>Fe Mössbauer spectroscopy

P-11: Gerrard Peter, Deena Naidoo and Hilary Masenda .A spectroscopic study of iron based cemented carbides

P-12: Antoine F. Mulaba-Bafubiandi, Seke vangu Max, Balue Kumona and Wafula Mifundu, Nyiragongo lava pozzolana material to use in construction applications characterised by X-ray techniques, SEM, FTIR and Mössbauer spectroscopy

P-13: S. Krehula, M. Ristić, M. Reissner, C. Frandsen, S. Musić, <sup>57</sup>Fe Mössbauer study of iron phases in TiO<sub>2</sub> production

P-14: Danny Müller, Christian Knoll, Marco Seifried, Gerald Giester, Peter Weinberger, Michael Reissner, Spin-state determination in rigid iron(ii) tetrazole spin crossover chains

P-15: M. Walter, W.D.C. Schenkeveld, L. Gille, M. Reissner, S.M. Kraemer. Dissolution of chrysotile asbestos and its implications on the fibers' radical forming potential: a complementary ICP-OES, EPR and <sup>57</sup>Fe Mössbauer study