

*** Thorium Energy Conference 2013 (ThEC13) * CERN Globe of Science and Innovation**



Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome

Monday, 28 October 2013 09:00 (15 minutes)

Presenter: REVOL, Jean-Pierre (CERN)

Session Classification: Opening Ceremony

Contribution ID: 1

Type: **not specified**

Introduction of ThEC13 by representative of iThEC (C. Haegi, Former President of Geneva Government)

Monday, 28 October 2013 09:15 (25 minutes)

Presenter: Mr HAEGI, C. (Former President of Geneva Government)

Session Classification: Opening Ceremony

Contribution ID: 2

Type: **not specified**

Perspectives for ThEC13

Presenter: TBC

Contribution ID: 3

Type: **not specified**

A Future for Thorium Power?

Monday, 28 October 2013 09:40 (40 minutes)

Presenter: RUBBIA, Carlo (IASS, Potsdam, Germany; GSSI, L'Aquila, Italy)

Session Classification: Opening Ceremony

Contribution ID: 4

Type: **not specified**

Presenting Thorium to the public

Contribution ID: 5

Type: **not specified**

Towards sustainable, secure and safe energy future: Leveraging opportunities with Thorium

Monday, 28 October 2013 11:00 (30 minutes)

Presenter: KAKODKAR, Anil

Session Classification: National & International Thorium Programmes

Contribution ID: 6

Type: **not specified**

Thorium Energy R&D in China

Monday, 28 October 2013 11:30 (30 minutes)

Presenter: XU, HongJie (SINAP, China)

Session Classification: National & International Thorium Programmes

Contribution ID: 7

Type: **not specified**

The Japanese Thorium Programme

Monday, 28 October 2013 12:00 (30 minutes)

Presenter: SASA, Toshinobu (J)

Session Classification: National & International Thorium Programmes

Contribution ID: 8

Type: **not specified**

Thorium Fuel Cycle activities in IAEA

Monday, 28 October 2013 12:30 (30 minutes)

Presenter: BASAK, Uddharan (IAEA)

Session Classification: National & International Thorium Programmes

Contribution ID: 9

Type: **not specified**

Overview of European Experience with Thorium fuels

Monday, 28 October 2013 13:00 (30 minutes)

Presenter: HAAS, Didier (Belgium)

Session Classification: National & International Thorium Programmes

Contribution ID: **10**

Type: **not specified**

MYRRHA: A Flexible and Fast Spectrum Irradiation Facility

Monday, 28 October 2013 16:30 (30 minutes)

Presenter: HAMID, Ait Abderahim (SCK-CEN Mol, Belgium)

Session Classification: National & International Thorium Programmes (Cont.)

Contribution ID: 11

Type: **not specified**

Overview of the Thorium Programme in India

Monday, 28 October 2013 15:00 (30 minutes)

Presenter: Dr PALLIPPATTU KRISHNAN, Vijayan

Session Classification: National & International Thorium Programmes (Cont.)

Contribution ID: 12

Type: **not specified**

The UK's strategy on thorium nuclear technologies

Monday, 28 October 2013 15:30 (30 minutes)

Presenter: ARNOLD, Rob (U)

Session Classification: National & International Thorium Programmes (Cont.)

Contribution ID: 13

Type: **not specified**

The Feasibility and Desirability of Employing Thorium Fuel Cycle for Power Generation

Monday, 28 October 2013 16:00 (30 minutes)

Presenter: SEHGAL, Bal Raj (Royal Institute of Technology)

Session Classification: National & International Thorium Programmes (Cont.)

Contribution ID: 14

Type: **not specified**

The Thorium Cycle: Past Achievements & Future Prospects

Monday, 28 October 2013 17:30 (30 minutes)

Presenter: GRENECHE, Dominique (Nuclear Consulting)

Session Classification: Innovative Thorium - Reactor Concepts (incl. Industrial Programmes)

Contribution ID: 15

Type: **not specified**

Thorium Molten Salts, Theory and Practice

Monday, 28 October 2013 18:00 (30 minutes)

Presenter: MADDEN, Paul (Queen's College, UK)

Session Classification: Innovative Thorium - Reactor Concepts (incl. Industrial Programmes)

Contribution ID: 16

Type: **not specified**

Flibe Energy LFTR Development Strategy

Monday, 28 October 2013 18:30 (30 minutes)

Presenter: SORENSEN, Kirk (F)

Session Classification: Innovative Thorium - Reactor Concepts (incl. Industrial Programmes)

Contribution ID: 17

Type: **not specified**

An industrial view on Thorium: Possibilities, Challenges and Paths forward

Tuesday, 29 October 2013 08:30 (30 minutes)

Presenter: VAN DER DURPEL, Luc (AREVA, France)

Session Classification: Innovative Thorium-Reactor Concepts

Contribution ID: 18

Type: **not specified**

Global and Turkish perspectives of Thorium fuel for nuclear energy

Tuesday, 29 October 2013 09:00 (30 minutes)

Presenter: KAYA, Muammer (E)

Session Classification: Innovative Thorium-Reactor Concepts

Contribution ID: 19

Type: **not specified**

Opportunities and Challenges for Thorium in Commercial MSRs

Tuesday, 29 October 2013 09:30 (30 minutes)

Presenters: TURNER, Joel (Rolls-Royce, UK); DONALDSON, Tony (Rolls-Royce, UK)

Session Classification: Innovative Thorium-Reactor Concepts

Contribution ID: 20

Type: **not specified**

Current Czech R&D in Thorium MSR Technology and Future Directions

Tuesday, 29 October 2013 10:00 (30 minutes)

Presenter: UHLIR, Jan (Research Centre Rez)

Session Classification: Innovative Thorium-Reactor Concepts

Contribution ID: 21

Type: **not specified**

Welcome

Tuesday, 29 October 2013 11:00 (15 minutes)

Presenter: HEUER, Rolf (CERN)

Session Classification: Innovative Thorium-Reactor Concepts

Contribution ID: 22

Type: **not specified**

The Road to Enablement for a Liquid-Fuel Reactor Fuelled by Thorium

Tuesday, 29 October 2013 11:45 (30 minutes)

Presenter: Mr DURHAM, John (Weinberg Foundation)

Session Classification: Innovative Thorium-Reactor Concepts

Contribution ID: 23

Type: **not specified**

Global and Turkish perspectives of Thorium fuel for nuclear energy

Presenter: KAYA, Muammer (Osmangazi University, Turkey)

Contribution ID: 24

Type: **not specified**

Thorium in LWRs: first results from the ongoing irradiation campaign in the Halden Reactor

Tuesday, 29 October 2013 12:15 (30 minutes)

Presenter: ASPHJELL, Øystein (SCATEC, Oslo, Norway)

Session Classification: Innovative Thorium-Reactor Concepts

Contribution ID: 25

Type: **not specified**

Utilization Potential of Thorium in CANDU Reactors and in Fusion-Fission (Hybrid) Reactors

Tuesday, 29 October 2013 14:30 (30 minutes)

Presenter: SAHIN, Sümer (Atılım University, Turkey)

Session Classification: Thorium-Fuel Cycle & Transmutation

Contribution ID: 26

Type: **not specified**

Aqueous and Pyro-reprocessing

Tuesday, 29 October 2013 16:00 (30 minutes)

Presenter: DELPECH, Sylvie (C)

Session Classification: Thorium-Fuel Cycle & Transmutation

Contribution ID: 27

Type: **not specified**

Introducing the thorium fuel cycle

Tuesday, 29 October 2013 15:00 (30 minutes)

Presenter: MATHERS, Daniel (N)

Session Classification: Thorium-Fuel Cycle & Transmutation

Contribution ID: 28

Type: **not specified**

Recycling Challenges of thorium-based fuels

Tuesday, 29 October 2013 15:30 (30 minutes)

Presenter: WATTAL, Piaray Kishen (BARC, India)

Session Classification: Thorium-Fuel Cycle & Transmutation

Contribution ID: 29

Type: **not specified**

PSI Studies on Advanced fuel cycle options for Fast/Thermal MSR Utilizing Thorium

Tuesday, 29 October 2013 16:30 (30 minutes)

Presenter: KREPEL, Jiri (PSI, Switzerland)

Session Classification: Thorium-Fuel Cycle & Transmutation

Contribution ID: 30

Type: **not specified**

Pyro--electric rePSI Studies on Advanced fuel cycle options for Fast/Thermal MSR Utilizing Thoriumprocessing

Contribution ID: 32

Type: **not specified**

Nuclear Data Development Related to Th-U Fuel Cycle in China

Tuesday, 29 October 2013 17:30 (30 minutes)

Presenter: WU, Haicheng (CIAE, China)

Session Classification: Thorium-Fuel Cycle & Transmutation

Contribution ID: **33**

Type: **not specified**

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Contribution ID: 34

Type: **not specified**

Nuclear Data Development Related to Th-U Fuel Cycle in India

Wednesday, 30 October 2013 08:30 (30 minutes)

Presenter: Dr GANESAN, SRINIVASAN (Bhabha Atomic Research Centre)

Session Classification: Thorium - Reactor Physics

Contribution ID: 35

Type: **not specified**

Fast Reactor Physics

Wednesday, 30 October 2013 09:30 (30 minutes)

Presenter: MIKITYUK, K. (PSI, Switzerland)

Session Classification: Thorium - Reactor Physics

Contribution ID: 36

Type: **not specified**

Introduction to the Physics of Thorium Molten Salt Fast Reactors

Wednesday, 30 October 2013 10:00 (30 minutes)

Presenter: MERLE-LUCOTTE, Elsa (IN2P3 / CNRS, Grenoble, France)

Session Classification: Thorium - Reactor Physics

Contribution ID: 37

Type: **not specified**

Nuclear Data for the Thorium fuel Cycle and Transmutation

Wednesday, 30 October 2013 09:00 (30 minutes)

Presenter: GUNSING, F. (CEA, France)

Session Classification: Thorium - Reactor Physics

Contribution ID: 38

Type: **not specified**

Review of Accelerators for ADS

Wednesday, 30 October 2013 11:30 (30 minutes)

Presenter: MUELLER, Alex C. (CNRS-IN2P3, France)

Session Classification: Accelerator-Driven Systems

Contribution ID: 39

Type: **not specified**

Cyclotrons for ADS

Wednesday, 30 October 2013 12:00 (30 minutes)

Presenter: MANDRILLON, P. (AIMA, France)

Session Classification: Accelerator-Driven Systems

Contribution ID: 40

Type: **not specified**

Euratom MAX Program: the MYRRHA Accelerator Experiment

Wednesday, 30 October 2013 12:30 (30 minutes)

Presenter: BOULY, Frederic (LPSC/CNRS)

Session Classification: Accelerator-Driven Systems

Contribution ID: 41

Type: **not specified**

Accelerator development for ADSR

Wednesday, 30 October 2013 13:00 (30 minutes)

Presenter: BARLOW, Roger (Huddersfield University, UK)

Session Classification: Accelerator-Driven Systems

Contribution ID: 42

Type: **not specified**

ADS Physics and Motivations

Wednesday, 30 October 2013 11:00 (30 minutes)

Presenter: REVOL, Jean-Pierre (CERN)

Session Classification: Accelerator-Driven Systems

Contribution ID: 43

Type: **not specified**

MEGAPIE: the world's first high-power liquid metal spallation neutron source

Wednesday, 30 October 2013 15:05 (25 minutes)

Presenter: LATGÉ, Christian

Session Classification: Accelerator-Driven Systems

Contribution ID: 44

Type: **not specified**

Thorium Target Design for Accelerator Driven-Molten Salt Reactors

Wednesday, 30 October 2013 15:30 (30 minutes)

Presenter: SAJO-BOHUS

Session Classification: Accelerator-Driven Systems

Contribution ID: 45

Type: **not specified**

Virginia ADS Consortium

Wednesday, 30 October 2013 16:00 (30 minutes)

Presenter: Dr MYNENI, Ganapati (Virginia Tech, USA)

Session Classification: Accelerator-Driven Systems

Contribution ID: 46

Type: **not specified**

The Troisk ADS Project

Thursday, 31 October 2013 08:30 (30 minutes)

Presenter: SIDORKIN, Stanislav F.

Session Classification: Accelerator - Driven Systems

Contribution ID: 47

Type: **not specified**

China ADS projects

Thursday, 31 October 2013 09:00 (30 minutes)

Presenter: YANG, Lei (IMP CAS, China)

Session Classification: Accelerator - Driven Systems

Contribution ID: 48

Type: **not specified**

Accelerator Driven Systems for thorium utilization in India

Thursday, 31 October 2013 09:30 (30 minutes)

Presenter: DEGWEKER, Shashikant Balwant (Bhabha Atomic Research Centre)

Session Classification: Accelerator - Driven Systems

Contribution ID: 49

Type: **not specified**

The iThEC Strategy

Thursday, 31 October 2013 10:00 (30 minutes)

Presenter: KADI, Yacine (CERN)

Session Classification: Accelerator - Driven Systems

Contribution ID: 50

Type: **not specified**

Introduction

Thursday, 31 October 2013 11:00 (5 minutes)

Presenter: REVOL, Jean-Pierre (CERN)

Session Classification: Round Table

Contribution ID: 51

Type: **not specified**

International cooperation

Thursday, 31 October 2013 11:05 (10 minutes)

Sessions 1 & 2

Presenter: KAKODKAR, Anil

Session Classification: Round Table

Contribution ID: 52

Type: **not specified**

Innovative Thorium Reactor concepts: MSR

Thursday, 31 October 2013 11:15 (10 minutes)

Session 3, 4, 5

Presenter: AÏT ABDERRAHIM, Hamid (SCK.CEN)

Session Classification: Round Table

Contribution ID: 53

Type: **not specified**

Thorium Fuel cycle

Thursday, 31 October 2013 11:25 (10 minutes)

Sessions

6

and

7

Presenter: KADI, Yacine (CERN)

Session Classification: Round Table

Contribution ID: 54

Type: **not specified**

Thorium-Reactor Physics

Thursday, 31 October 2013 11:35 (10 minutes)

Session 8

Presenter: CYWINSKI, Robert (University of Huddersfield)

Session Classification: Round Table

Contribution ID: 55

Type: **not specified**

ADS accelerators

Thursday, 31 October 2013 11:45 (10 minutes)

Session +

Presenter: SEIDEL, Mike (PSI)

Session Classification: Round Table

Contribution ID: 56

Type: **not specified**

Accelerator--Driven Systems: the spallation target

Session 10

Presenter: KADI, Yacine (CERN)

Contribution ID: 57

Type: **not specified**

Ukraine Accelerator Driven System Facility

Presenter: YOUSRY GOHAR, Mohamed (ANL, USA)

Contribution ID: 58

Type: **not specified**

KURRI Thorium-loaded ADS Experiment

Wednesday, 30 October 2013 17:30 (30 minutes)

Presenter: PYEON, Cheolho (Research Reactor Institute, Kyoto University, Japan)

Session Classification: Accelerator-Driven Systems

Contribution ID: 59

Type: **not specified**

A Status and Prospect of Korea ADS

Wednesday, 30 October 2013 18:00 (30 minutes)

Presenter: CHAI, Jong-Seo (Gangneung-Wonju National University (KR))

Session Classification: Accelerator-Driven Systems

Contribution ID: **60**

Type: **not specified**

Discussion:

Critical vs subcritical systems for thorium - relative merits; next steps in thorium technology developments; international collaboration framework Conference summary and a look into the future of thorium technologies

Presenter: REVOL, Jean-Pierre (CERN)

Contribution ID: **61**

Type: **not specified**

Spallation Target Developments

Wednesday, 30 October 2013 14:45 (20 minutes)

Presenter: WOHLMUTHER, Michael (P)

Session Classification: Accelerator-Driven Systems

Contribution ID: 62

Type: **not specified**

Thorium Nuclear Power and Non-Proliferation

Tuesday, 29 October 2013 11:15 (30 minutes)

Presenter: BLIX, Hans (ex Director General of IAEA, Sweden)

Session Classification: Innovative Thorium-Reactor Concepts

Contribution ID: **63**

Type: **not specified**

Accelerator--Driven Systems: National projets

Session 11 and 12

Presenters: PAUTZ, Andreas (Paul-Scherrer Institut); SAMEC, Karel (Swiss Federal Nuclear Safety Inspectorate (CH))

Contribution ID: **64**

Type: **not specified**

Welcome registration

Presenter: HERVET, Carnita (CERN)

Contribution ID: 65

Type: **not specified**

Discussion

Critical vs subcritical systems for thorium - relative merits; next steps in thorium technology developments; international collaboration framework

Contribution ID: **66**

Type: **not specified**

ADS targets

Thursday, 31 October 2013 11:55 (10 minutes)

Presenter: SAMEC, Karel (CERN)

Session Classification: Round Table

Contribution ID: 67

Type: **not specified**

ADS projects

Thursday, 31 October 2013 12:05 (10 minutes)

Presenter: Prof. BOURQUIN, Maurice (University of Geneva)

Session Classification: Round Table

Contribution ID: 68

Type: **not specified**

Discussion: Next steps in thorium technology development and international collaboration framework

Thursday, 31 October 2013 12:15 (30 minutes)

Session Classification: Round Table