International Conference on Science, Technology and Applications of Rare Earths

23rd September 2018

8:30 to 10:00 AM
Registration

10:00 to 11:00 AM
Inaugural Function and refreshments

Session :1

New technologies for rare earthsextraction / separation and applications

Chairman:D. Ramaiah, Former Director, CSIR-NEIST, Jorhat,India

11:30 to 12:15 PM
PL-1:Molecular recognition technology: Green chemistry separation and recovery of individual rare earth elements from primary and secondary sources by Steven R. Izatt, IBC Advanced Technologies, USA

12:15 to 12:45 PM
IT-6: Rare earth magnetic material in e.v.s by D.Singh,Chairman and Managing Director, IREL, Mumbai, India

12:45 to 1:15 PM
IT-9: Rare-earth coordinated solids as novel photonic materials by**ArunachalamRamanan, IIT, New Delhi, India**

1:15 to 2:00 PM
Lunch

Session: 2

Recovery of rare earths from mineral resources and industrial wastes

Chairman:S.Prabhakar, Consultant, Mineral Processing, Chennai, India

2:00 to 2:45 PM
PL-2: Critical raw materials supply: what's up in extraction and recycling of rare earths, Stéphane Pellet-Rostaing,CNRS, France

2:45 to 3:30 PM
PL-3:Process for potential utilization of bauxite residues for extraction of rare earths by AnupamAgnihotri, JNARDDC, Nagpur, India

3:30 to 4:00PM
IT- 2:Rare earths recovery from permanent magnets scraps by hydrometallurgical methodsby J. Rajesh Kumar, KIGAM, South Korea

4:00 to 4:15PM
Afternoon refreshments

Session:3

Rare earths occurrence, beneficiation and recycling

Chairman:K.G.K.Warrior, Consultant, Ceramic Materials, Trivandrum

4:15 to 4:45PM

IT- 3 :Overview on trends in monazite processing for the recovery of rare earths byT.Sreenivas, BARC, Hyderabad,India

4:45 to 5:15PM
IT-4:Abundant rare earth resource, yet imported – an Indian paradox by C. Swamydas, V.V. Group, India

Session 4:

Chairman: P.N.Mohan Das, Former Chief Scientist, CSIR-NIIST, Trivandrum, India

5:15 to 6:30 PM
Poster Presentations

PS-1 to PS-40

7:00 to 9:00 PM
Cultural event and Conference Cocktail reception

24th September 2018

Session:5

New trends in applications of rare earths

Chairman:R.Ramaraj, Madurai KamarajUniversity, Madurai, India

9:00 to 9:45 AM
PL-4:The role of rare earths in the design of next generation advanced functional materials for emerging applications by Mas Subramanian, Oregon State University,USA

9:45 to 10:30 AM
PL-5:Rare earth based ceramics and composites for microwave circuit applications by N.R. Munirathnam, C-MET, India

10: 30 to 11:00 AM
IT-5:Occurrence, exploration, chemical analysis and environmental impact of rare earths by V. Balaram, Former chief scientist, CSIR-NGRI, Hyderabad, India

11: 00 to 11:15AM
Morning refreshments

Session: 6

New trends in applications of rare earths

Chairman:V.Raj Nair, Formerly from IREL, Alwaye, India

11:15 to 12:00PM
PL-6:Rare earth permanent magnets and other rare earth magnetic materials for energy saving applications by R. Gopalan, ARCI, Chennai, India

12:00 to 12:30 PM
IT- 1: Recycling of rare earths from magnetic waste materials by D.K. Singh, BARC, Mumbai, India

12:30 to 1:00 PM
IT-7:Rare earth metal doped ceria solid solutions for catalytic applications by Benjaram M. Reddy, CSIR-IICT, Hyderabad, India

1:00 to 2:00 PM
Lunch

Session:7

New trends in applications of rare earths

Chairman:G.P.Kothiyal, BARC, Mumbai, India

2:00 to 2:30 PM
IT- 8:Colored inorganic compounds - the role of rare-earth and transition metals by SrinivasanNatarajan, IISC, Bangalore, India

2:30 to 3:00 PM

IT-10:Radiolanthanides in nuclear medicine: Current trends and the path ahead, Ashutosh Dash, BARC, Mumbai, India

3:00 to 3:30 PM
IT-11:Rare earth based functional materials: rich examples of structure-property correlation by A. K. Tyagi, BARC, Mumbai, India

4:00 to 4:30 PM
IT- 12 Processing of zirconia and value added products of industrial importance from Indian zircon by S.Suresh Kumar, formerly from IREL, Mumbai, India

4:30 to 5:00 PM
Afternoon refreshments

Session: 8

New trends in applications of rare earths

Chairman:HarikrishnaBhat, Chief Scientist, CSIR-NIIST, Trivandrum

5:00 to 6:45 PM
Short presentations SP-1 to SP-12

7:00 to 8:00 PM
POSTER Presentation PS41-81

8:00 to 9:00 PM
Conference Dinner

25th September 2018

Session:9

Rare earth based luminescent materials and their applications

Chairman:P. PrabhakarRao, Chief Scientist, CSIR-NIIST, Trivandrum

9:00 to 9:20 AM
IT-13:Rare earth doped glasses and optical fibers: Breaking the barriers of technology by RanjanSen, CSIR-CGCRI, Kolkota, India

9:20 to 9:40 AM
IT-14:Design and development of high energy, high Power Nd:Glass Laser in India for high energy density implosion physics experiments, by A.S. Joshi, RRCAT, India

9:40 to 10:00 AM
IT-15:Rare earth doped thin film oxide scintillators by MiroslavKucera, Czech Republic

10:00 to 10:20 AM
IT-16:Photo and radio-luminescence studies of Ln^{3+} doped glasses for solid state lighting and radiation detection material application by JakrapongKaewkhao,Thailand

10:20 to 10:40 AM
IT-17:Temperature sensing using up-conversion in rare earth doped thermographic phosphors byManuel Pedro Fernandes Graça, Portugal

10:40 to 11:00 AM
Morning Refreshments

Session:10

Rare earth based luminescent materials and their applications

Chairman:N. Veeraiah, AcharyaNagarjuna University, Guntur, India

11:00 to 11:20 AM
IT-18:High pressure effect on luminescence properties of Pr^{3+} and Eu^{3+} doped oxides with perovskite and layered perovskite structures by A. Suchocki, Poland

11:20 to 11:40 AM
IT-19:Photoluminescence quantum yield as a test of quantum cutting processes in ionic down converting phosphors by Ya. Zhydachevskyy, Poland

11:40 to 12:00 PM
IT- 20:Spectroscopic properties and location of the Ln^{3+} and Ln^{2+} energy levels in crystals under high hydrostatic pressure byM. Grinberg, Poland

12:00 to 12:20 PM
IT- 21:The structure and temperature features of the IR luminescence properties in the chalcogenide and oxide glasses by M.Piasecki, Poland

12:20 to 12:40 PM

IT- 22:Rare earth luminescence under pressure by VíctorLavín, Spain

12:40 to 1:00 PM

IT-23:Ternary metal oxide compounds prepared by facile process and feasibility for rare-earth doped host materials by P.Wisanu, Thailand

1:00 to 2:00 PM

Lunch

Session:11

Rare earth based luminescent materials and their applications

Chairman:P.P.Chandrachoodan, BARC, Mumbai, India

2:00 to 2:20 PM

IT- 24:Development of Nd^{3+} ion doped glasses for NIR laser application by MitraDjamal, Indonesia

2:20 to 2:40 PM

IT- 25:Nd^{3+}-YAP nanocrystals: A high pressure luminescence study by Ulises R. Rodríguez-Mendoza, Spain

2:40 to 3:00 PM

IT- 26:Faraday rotation in rare earth doped and quantum dot based glasses by B.B.Kale, C-MET, Pune, India

3:00 to 3:20 PM

IT-27:Synthesis and luminescence characterization of rare earth ions activated inorganic phosphors for eco-friendly led lighting by S. J. Dhoble, India

Session:12

3:30 to 4:15 PM

Concluding Session

4:15 to 4:30 PM

Refreshments