| | HOTLAB 2019 TECHNICAL PROGR | AMME | | | |
|-----------------|---|--------------------|---|--|--|
| SUNDAY 8.9.2019 | | | | | |
| | | | | | |
| 18.00 - 19.00 | Registration | | | | |
| 19.00 - 20.30 | Welcome Dinner | | | | |
| MONDAY 9.9.2019 | | | | | |
| | OPENING | | | | |
| 9:00 – 9:10 | Welcome remarks | Dr. G. Amarendra | Chairman, HOTLAB 2019 | | |
| 9:10 – 9:20 | Inaugural Address | Dr. A.K. Bhaduri | Director, IGCAR, Kalpakkam | | |
| 9:20 – 9:35 | Opening Remarks and Presentation on IAEA HOTLAB PIE database | Dr. Ki Seob Sim | Chairman, International Working Group of Hot Laboratories & Remote Handling | | |
| Т | TECHNICAL SESSION – I: Development of new shielded facilities | | | | |
| 09:40 - 10.00 | General configuration, recent developments and perspectives of the Hot Cells capabilities at JRC Karlsruhe | V.V. Rondinella | JRC Karlsruhe, Germany | | |
| 10:00 - 10.20 | UKAEA Materials Research Facility, growing into mature levels | Monica Jong | United Kingdom Atomic Energy Authority, United Kingdom | | |
| 10:20 - 10:40 | New Argentinean project: Laboratory for the study of irradiated materials associated to RA10 Research Reactor | Marcela Mirandou | Comisión Nacional de Energía Atómica, Argentina | | |
| 10.40 - 11.10 | TEA/COFFEE BREAK | | | | |
| 11.10 - 11.30 | Radioactive waste processing and medical isotope harvesting requirements for a new hot cell at TRIUMF | S. Varah | TRIUMF, Canada | | |
| 11.30 - 11.50 | Pyro Process Research & Development Facility: A Test bed for engineering technologies for metal fuel reprocessing | S.P. Ruhela | Indira Gandhi Centre for Atomic Research,India | | |
| 11.50 - 12.10 | Infrastructure for Production of Radioisotopes and Progress in Mo-99 Production from LEU Targets | M. Mincu | Institute for Nuclear Research,Romania | | |
| 12.10 - 12.30 | The constructing status and preliminary evaluation for the criticality safety design of Okuma Analysis and Research Center | Akinori Sato | Japan Atomic Energy Agency, Japan | | |
| 12:30 - 12:50 | The European Spallation Source ERIC – Active Cells Facility Construction and Design Update | Magnus Göhran | European Spallation Source ERIC, Sweden | | |
| 13.00 - 14.00 | LUNCH | | | | |
| Ti | TECHNICAL SESSION – II : Ageing Management And Refurbishment Of Hot Laboratories | | | | |
| 14:00 – 14:20 | Ageing management and refurbishment of existing hot-cells in Norway to meet future needs | Barbara Oberlander | Institute for Energy Technology, Norway | | |
| 14:20 – 14:40 | Brookhaven National Laboratory (BNL) hot cell renovation | John Boes | Merrick, United States of America | | |
| 14:40 – 15:00 | Refurbishment of a nuclear facility in operation : Focus on the check and thorough maintenance of hot cell's handling equipment | Gruber Philippe | CEA, France | | |

| 15:00 – 15:20 | INL visual examination machine periscope upgrade | Philip Winston | Idaho National Laboratory, United States of America | | |
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| 15:20 – 15:40 | Decontamination and dismantling of a modular steel alpha chamber for JRC Karlsruhe hot cells | L. Velnom | JRC Karlsruhe, Germany | | |
| 15:40 – 16:00 | TEA/COFFEE BREAK | | | | |
| Technical Session III: Development of Remote Handling Facilities/Equipments | | | | | |
| 16:00 – 16:20 | Mobile hot cell for disused source recovery | Kuldeep Sharma | Board of Radiation and Isotope Technology, India | | |
| 16:20 – 16:40 | A new remote handling facility for radioactive high-power fission and spallation ISOL targets at TRIUMF | Grant Minor | TRIUMF,Canada | | |
| 16:40 – 17:00 | Force estimation and feed back control of the Servo Manipulator for the remote handling use in Hot Cells | Joseph Winston | Indira Gandhi Centre for Atomic Research,India | | |
| 17:00 – 17:20 | Development of in-cell crane for use in lead shielded cell | M Sakthivel | Indira Gandhi Centre for Atomic Research,India | | |
| 17:20 – 17:40 | Dissolution and solvent extraction for the purification of Sr-89 from irradiated yttria target in Hot cells | S. Rajeswari | Indira Gandhi Centre for Atomic Research,India | | |
| 17:40 – 18:00 | Design of vacuum distillation system to remove Sodium from irradiated Sodium bonded metallic fuel pins in concrete hot cell | Sudhanshu Mishra | Indira Gandhi Centre for Atomic Research,India | | |
| 19.00 – 21.00 | Cultural Programme & Dinner | | | | |
| | TUESDAY 10.9.2019 | | | | |
| TI | ECHNICAL SESSION – IV Analytical Characterisation | | | | |
| 9:00 – 9:20 | | | | | |
| | Spatial profile studies of nuclear material burn-up by Laser Ablation- lonization | P.Manoravi | Indira Gandhi Centre for Atomic Research,India | | |
| 9:20 – 9:40 | | P.Manoravi G.G.S.Subramanian | | | |
| 9:20 – 9:40 9:40 – 10.00 | Ionization Development of ICP-AES and LIBS techniques adapted to Lead Minicell and Glove box facilities respectively for the analysis of radioactive | | Research,India Indira Gandhi Centre for Atomic | | |
| | Ionization Development of ICP-AES and LIBS techniques adapted to Lead Minicell and Glove box facilities respectively for the analysis of radioactive samples. Laser Induced Break down Spectroscopy (LIBS): A tool for identification of | G.G.S.Subramanian | Research,India Indira Gandhi Centre for Atomic Research,India Indira Gandhi Centre for Atomic | | |
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| 9:20 – 10:00 | Transfer radioactive waste material in Hotcell 101 radiometalurgi via transfer channel towards interim storage for spent fuel | Dadang | National Nuclear Energy Agency, Indonesia | | |
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| 9:20 – 9:40 | Remote Handling Refurbishment Infrastructure for the ISAC High-Power Target Facility at TRIUMF | Isaac Earle | TRIUMF, Canada | | |
| 9:00 – 9:20 | Commissioning a secured bottle to transfer highly radioactive solutions between two hot cells | Elodie Cheutet | CEA, France | | |
| TECHNICAL SESSION – VII : Transport of Radioactive Material | | | | | |
| WEDNESDAY 11.9.2019 | | | | | |
| 17:20 – 18:10 | Visit to posters | | | | |
| 16:20 – 17:20 | Poster pitch presentations, 2 minutes each | | | | |
| P | OSTER SESSION | | | | |
| 16:00 – 16:20 | TEA/COFFEE BREAK | | | | |
| 15:40 – 16.00 | Use of neutron radiography for examination of irradiated fast reactor fuels | V Anandraj | Indira Gandhi Centre for Atomic Research,India | | |
| 15:20 – 15:40 | Radial gamma scanning system for irradiated fuel | V V Jayaraj | Indira Gandhi Centre for Atomic Research,India | | |
| 15:00 – 15:20 | Development of gamma scanning applications in post irradiation examination | Susan Morgan | National Nuclear Laboratory Limited, United Kingdom | | |
| 14:40 – 15:00 | Non Destructive PIE Techniques at Windscale – Locating failed fuel pins | Matthew Barker | National Nuclear Laboratory Limited, United Kingdom | | |
| 14:20 – 14:40 | High resolution neutron imaging of spent fuel cladding sections | Robert Zubler | Paul Scherrer Institut, Switzerland | | |
| 14:00 – 14:20 | Recent advances in NDE techniques during PIE of irradiated nuclear materials | J L Singh | Bhabha Atomic Research Centre, India | | |
| TECHNICAL SESSION – VI : Non Destructive PIE Techniques | | | | | |
| 13:00 – 14:00 | LUNCH | | | | |
| 12:40 – 13:00 | PIE of MOX fuel : An Advanced PHWR Fuel | Prerna Mishra | Bhabha Atomic Research Centre,India | | |
| 12.20 – 12.40 | Effects of second phases on Charpy Impact Energy and crack propagation behavior of Hastelloy N Sheet Using for Molten Salt Reactor | Jianjun Mao | Nuclear Power Institute of China, China | | |
| 12.00 – 12.20 | Zircaloy-4 fuel cladding | R. S. Shriwastaw | Bhabha Atomic Research Centre,India | | |

| TE | TECHNICAL SESSION – VIII: Development of Characterisation Equipments | | | | |
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| 10:40 – 11:00 | Development of Laser- Raman Microscopy and Micro hardness Testing capability for post irradiation examination as part of UK wide capability | Susan Morgan | National Nuclear Laboratory Limited, United Kingdom | | |
| 11:00 – 11:20 | Design of a facility for in-situ creep testing under ion irradiation of fast reactor core structural materials | S Ravi | Indira Gandhi Centre for Atomic Research,India | | |
| 11:20 – 11:40 | Implementation of A Shielded Dual Beam (SEM/FIB) in the fuels and materials hot cells facility at Canadian Nuclear Laboratories | Cameron Howard | Canadian Nuclear Laboratories, Canada | | |
| COMMERCIAL PRESENTATIONS | | | | | |
| 11.40 - 12.00 | Building a winning formula | Steve Barker | Aquila Nuclear Engineering Limited, United Kingdom | | |
| 12:00 – 12:20 | The R80 Package: A new Type B(U) Type A& industrial package for multiple radioactive waste streams | M. Christopher Dane | ROBATEL Industries, France | | |
| 12.20 – 12.40 | Used target management from Advanced Rare Isotope Laboratory (ARIEL) | Clement Filere | ROBATEL Industries, France | | |
| 12:40 – 13:00 | Electron Probe Micro Analyser for nuclear science | Mona Moret | CAMECA, France | | |
| 13:00 – 14:00 | LUNCH | | | | |
| TECHNICAL SESSION – IX: Inventory and waste management | | | | | |
| 14:00 – 14:20 | Treatment of spent solvent in STRAD project | Sou Watanabe | Japan Atomic Energy Agency, Japan | | |
| 14:20 – 14:40 | Contribution of R&D hotcells laboratories to the recovery and repackaging of waste resulting from dismantling of French nuclear facilities | S. Mougnaud | CEA,France | | |
| 14:40 – 15:00 | Actinide behavior in biphasic alpha contaminated waste package | J. Delrieu | CEA,France | | |
| 15:00 – 15:20 | Design and Performance of Glove-Box Adapted Inductively Coupled Plasma-Optical Emission Spectrometer for the Estimation of Elemental Composition of High Level Radioactive Liquid Waste at WIP Kalpakkam | J. Selvakumar | Bhabha Atomic Research Centre,India | | |
| 15:20 – 15:40 | TEA/COFFEE BREAK | | | | |
| TE | ECHNICAL SESSION – X : Safety & Radiological Hygiene | | | | |
| 15:40 – 16:00 | Status of the OECD-NEA TCOFF project in support of Fukushima Daiichi decommissioning | D. Bottomley | JAEA-CLADS, Japan | | |
| 16:00 – 16:20 | Operational Health Physics surveillance in Post Irradiation Examination Lab – An Overview | Akila R | Indira Gandhi Centre for Atomic Research, India | | |
| 16:20 – 16:40 | Collection of information on international hot analysis capabilities for the OECD/NEA, Preparatory study on analysis of fuel debris (PreADES) project | Akira Nakayoshi | JAEA-CLADS, Japan | | |
| 16.45 - 17.30 | CLOSING SESSION : Awards & Announcement of 57th HOTLAB meeting | | | | |
| | THURSDAY 12.9.2019 | | | | |
| 7:30-13:00 | TECHNICAL VISIT TO IGCAR NUCLEAR FACILITIES | | | | |
| 13:15-14:15 | Lunch at Radisson Blu | | | | |
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