



*International Conference on*  
**Characterization & Quality Control of Nuclear Fuels**  
**(CQCNF-2018)**

**PROGRAMME**

**Day 1: December 05, 2018**

- Registration** : **08:00-09:00 hrs**
- Inaugural Session** : **09:00-10:45hrs**
- Welcome address : **Dr. D. S. Setty**  
*General Manager (Fuels & Maint. - Fuels)*  
*Convener, CQCNF - 2018*
- Address by : **Dr. Dinesh Srivastava**  
Conference Chair *Chairman & Chief Executive, Nuclear Fuel Complex,*  
*Chairman, Organizing Committee, CQCNF - 2018*
- Address by : **Mr. M. B. Verma**  
Guests of Honour *Director,*  
*Atomic Minerals Directorate for Exploration &*  
*Research*
- Inaugural Address & : **Dr. Srikumar Banerjee**  
Talk by Chief Guest *Chancellor, HBNI*  
*Former Chairman, AEC and Secretary, DAE*
- Vote of Thanks : **Dr. Komal Kapoor**  
*General Manager (QA, Char. Lab & Control Lab)*  
*Nuclear Fuel Complex*
- High Tea** : **10:45-11:15hrs**



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**Plenary Session I** : **11:15-13:45hrs**

**Nuclear Fuel Complex - Vision 2028 (Challenges, Expertise & Innovative Technologies)**

*Dr. Dinesh Srivastava, Chairman & CE, NFC*

**IAEA Activities to support Quality Management of Power Reactor Fuels**

*Dr. Ki- Seob Sim, Nuclear Fuel Engineering Specialist, IAEA*

**Successfully processing High Impurity Uranium Ore Concentrates at Cameco's Blind River Refinery**

*Dale Clark, Vice President (Cameco Fuel Services), Cameco Inc.*

**Chemical Quality Control of Nuclear Fuels**

*Dr. P. K. Pujari, Associate Director (RC&I Group), BARC*

**Interaction of Zr based alloy clad and prospective U-Mo metallic fuel**

*Dr. G. K. Dey, Raja Ramanna Fellow, BARC*

**Lunch** : **13:45-14:30hrs**



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**Session IA (Fuel Fabrication) : 14:30-16:00 hrs**

**Optimization of UO<sub>2</sub> powder and green pellet quality for accelerated sintering**

*Dr. D.S. Setty, Dr A. L. V. Kumar Reddy, Jobin Koshy, S. K. Tiwari, Nuclear Fuel Complex*

**Operating Advanced Manufacturing Technology in Nuclear Fuel Fabrication Applications**

*Douglas M. Jensen, Cameco*

**Effect of Ammonia in Excess of Stoichiometric on Ammonium Uranate Precipitate Quality**

*Dr. A. L. V. Kumar Reddy, J. Venkatswamy, S. K. Tiwari, M. Misra, S. K. Pathak, Dr. D. S. Setty, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**The Application of Fluidized Bed Reactor for the Continuous Production of Uranium Trioxide**

*Sandip Bhowmick, Raj Kumar, K. N. Hareendhran, S. K. Satpati, K. T. Shenoy and Sadhana Mohan, Bhabha Atomic Research Centre*

**Effect of U<sub>3</sub>O<sub>8</sub> and UO<sub>2</sub> Powder SSA on the Quality of Green UO<sub>2</sub> Pellets**

*S. K. Tiwari, Dr. A. L. V. Kumar Reddy, J. Venkatswamy, Baidurjya Nath, D. M. Reddy, M. Misra, S. K. Pathak, Dr. D. S. Setty, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Tea & Poster Session : 16:00-18:00 hrs**

**Cultural Programme : 19:00-20:30 hrs**

**Dinner : 20:30-21:30 hrs**



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**Session IB (Characterization) : 14:30-16:00 hrs**

**Fracture Toughness of Axially-Cracked Thin-Walled Specimens and its Implications for Integrity Analysis of Nuclear Fuel Clad**

*J. Chattopadhyay, M. K. Samal, A. Syed, Bhabha Atomic Research Centre*

**Characterisation of Plutonium bearing samples by Optical Property Evaluation of Irradiated Track Detectors**

*K. V. Vrinda Devi, Jayshree Ramkumar, Bhabha Atomic Research Centre*

**Oxidation and Nodular Corrosion Behaviour of Zr-2 and Zr-4 - Effect of Hydrogen Content and Hydrides**

*Sai Karthik Nouduru, Kiran K Mandapaka, S. Tiwari, Sanjay K Singh, Vivekanand Kain, Bhabha Atomic Research Centre*

**Manufacturing and Characterization of Zr-Sn Lined Zr-4 Double Clad Tube**

*Ankit Agarwal, B. Chandrashekhar, M. V. Ramanna, Meena Ravindran, Swarup Acharya, S. V. Ramana Rao, Vaibhaw Kumar, V. Shiv Kumar, Nuclear Fuel complex*

**Characterization Studies of Zircaloy-4 Strip Material used for PHWR and BWR Fuel Assemblies**

*M. Chaitanya Reddy, A. M. Parsodkar, N. Krishna Murty, A. Maruthi Ram, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Tea & Poster Session : 16:00-18:00 hrs**

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**PROGRAMME**

**Day 2: December 06, 2018**

**Plenary Session II** : **09:00-11:00hrs**

**Advanced Nuclear Fuels for Operating and Upcoming Nuclear Power Reactors**

*Dr. Chaitanyamoy Ganguly, Advisor to DG, PDPU & Former Chief Executive, Nuclear Fuel complex*

**Guidelines for achieving Excellence in Fuel Performance**

*Dr. Husain Mehdi, Special Advisor to CEO, Kinectrics Inc.*

**Spent Fuel Management in India – An Overview**

*Kailash Agarwal, Director (Nuclear Recycle Group), Bhabha Atomic Research Centre*

**Roll Compaction as a process for Dry Granulation : Its challenges**

*Hartmut Vombey, Vice President (Sales & Technology), Gertais Maschinen + Processengineering AG*

**Tea** : **11:00-11:30hrs**



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**Day 2: December 06, 2018**

**Session IIA (Fuel Fabrication) : 11:30-13:00 hrs**

**Use of High Burnup MOX Fuels in Indian Heavy Water Reactors - A Design Perspective**  
*V. Shivakumar, S. K. Sinha, Bhabha Atomic Research Centre*

**Development of Production Processes for Manufacturing AHWR Fuel Cluster**  
*R. N. Jayaraj, Dr. D. S. Setty, Sameer Nautiyal, Rahul Shukla, Swaroopa Lakshmi, Baidurjya Nath, Nuclear Fuel Complex*

**Artificial intelligence based Automatic Pellet Stacking and Stack Verification System**  
*Suman Kumar, Y. S. Raju, D. Mohanthy, Dr. D. S. Setty, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Automation of End Cap Resistance Welding Machines Used in PHWR Fuel Element Manufacturing**  
*Shibashanker Das, G. Venugopal, N. V. Satish Kumar, Mohd. Salim. T, S. K. Pathak, V. Naga Bhasker, Dr. D. S. Setty, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Review of KARR Column Applicability in Nuclear Refining Facility**  
*Pritom Sharma, Hari S. Yadav, Ankur Agrawal, Puneet N. Tulsyan, Bhabha Atomic Research Center*

**Lunch : 13:00-14:00 hrs**



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**Day 2: December 06, 2018**

**Session IIB (Characterization) : 11:30-13:00 hrs**

**Non-Destructive Characterization of Nuclear Fuels during Post Irradiation Examination in Hot Cells**

*J. L. Singh, Nitin Kumawat, H. N. Singh, Umesh Kumar, Kamalesh Pandit, Anil Bhandekar, B. N. Rath, Prerna Mishra, Raman Saini, M. P. Dhotre, P. K. Shah, J. S. Dubey, G. K. Mallik, Bhabha Atomic Research Centre*

**Analytical Practices followed at NFC for the Chemical Characterization of Nuclear Fuel Materials**

*Y. Balaji Rao, Dr. Komal Kapoor, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Quantification of Boron in Fast Breeder Reactor Structural material using Inductively Coupled Plasma- Optical Emission Spectrometric Technique**

*S. N. V. M. S. Gupta, G. Satyanarayana, Ubaya Bharati Misra, Y. Balaji Rao, C. Phani Babu, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Determination of Thorium in Uranium-Thorium Nitrate Solution using Free Acidity and Total Acidity**

*Vinod Kumar Ray, G. Brahmananda Reddy, Y Balaji Rao, Dr. D. S. Setty, C. Phani Babu, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Monte Carlo Simulation Studies for Fuel Homogeneity Characterization**

*K. Biju, K. V. Vrinda Devi, Bhabha Atomic Research Centre*

**Lunch : 13:00-14:00 hrs**



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**Day 2: December 06, 2018**

**Session IIIA (Fuel Fabrication) : 14:00-15:30 hrs**

**Recent Developments in Fabrication of Mixed Carbide Fuel for FBTR**

*Sudhir Mishra, BARC*

**Revision of Bundle Power Envelopes for 220 MWe PHWRs**

*Rahul Mani Tripathi, Sherly Ray, P. N. Prasad, Nuclear Power Corporation of India Ltd.*

**Fabrication and Quality Control of MOX Fuel at Advanced Fuel Fabrication Facility**

*P. V. Suresh Varma, D. B. Sathe, R. B. Bhatt, Bhabha Atomic Research Centre*

**Design of Sodium Bonded Metal Fuel Pin for Fast Reactors**

*T. Rajkumar, D. Naga Sivayya, S. Clement Ravi Chandar, S. Raghupathy,  
P. Puthiyavinayagam, Indira Gandhi Centre for Atomic Research*

**Performance Assessment of FBTR MK-1 Fuel at Higher Operating Conditions**

*D. Naga Sivayya, S. Clement Ravi Chandar, S. Raghupathy, P. Puthiyavinayagam, Indira  
Gandhi Centre for Atomic Research*

**Tea : 15:30-16:00 hrs**





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**Day 2: December 06, 2018**

**Session IIIB (Quality Control) : 14:00-15:30 hrs**

**Quality Control in Alkyl Phosphine Oxide Based Pilot Plant For Production Of Hafnium Oxide**

*S. Mukhopadhyaya, G. Pandey, J. M. Joshi, K. T. Shenoy, S. Mohan, Bhabha Atomic Research Centre*

**Effect of Texture on the Formability of Zircaloy-4**

*Swadesh Kumar Singh, K. Limbadri, A. K. Singh, A. Maruthi Ram, Dr. Dinesh Srivastava, Mani Krishna, M. Chaitanya Reddy, Kurra Suresh, K Sajun Prasad, S. K. Panda, Gokaraju Rangaraju Institute of Engineering and Technology, Defence Metallurgical Research Laboratory (DMRL) Nuclear Fuel Complex, Bhabha Atomic Research Centre, Birla Institute of Technology and Science, IIT Kharagpur*

**Study of Coatings on Graphite to Reduce Uranium-Carbon Interaction During Melting of Uranium**

*S. K. Sharma, M. T. Saify, S. Majumdar, Bhabha Atomic Research Centre*

**Advanced features in End plate welding process towards Quality Enhancement of PHWR Fuel Manufacture**

*Atul Singh, P. Venkata Ramana, Shashanka Sekhar Dash, N. V. Satish Kumar, S. K. Pathak, Dr. D. S. Setty, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Determination of Gd<sub>2</sub>O<sub>3</sub> in Urania-Gadolinia mixed oxide pellet by Ion Interaction Chromatography**

*Shehanaz Bano, G. Brahmananda Reddy, Y. Balaji Rao, D. S. Setty, C. Phani Babu, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Tea : 15:30-16:00 hrs**



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**Day 2: December 06, 2018**

**Session IVA (Fuel Fabrication) : 16:00-17:30 hrs**

**Role of Refractory metals for Nuclear Industry**

*Sozhan Chinnathambi, M/s. H. C. Starck*

**Designing of Efficient Custom Built Vacuum Furnace to Meet the Process Requirement**

*Hari N Vasista, Srinivasa Lanka, Therelek Engineers Pvt. Ltd.*

**Kinetics of oxidation of Uranium Zirconium (U - 6wt.% Zr) alloy**

*Ashish Jain, P. Lograj, P. Muralidharan, Indira Gandhi Centre for Atomic Research*

**Improving the Irradiation Stability of the Th-U Alloys with Higher Uranium Loading**

*Raj Kumar, S. K. Satpati, S. Das, M. L. Sahu, Bhabha Atomic Research Centre*

**Fuel Salt Composition for Molten Salt Reactor**

*Sumanta Mukherjee, Smruti Dasha, Homi Bhabha National Institute*

**Cultural Programme : 19:00-20:30 hrs**

**Dinner : 20:30-21:30 hrs**



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**Day 2: December 06, 2018**

**Session IVB (NDT) : 16:00 – 17:30 hrs**

**Modular automation of injection casting process inside glove box in the metallic fuel fabrication facility**

*T.V. Prabhu, Abhishek Yadav, R. Lavakumar, G. Nanthakumar, P. Muralidaran, Metal Fuel Fabrication Division, MC&MFCG, Indira Gandhi Centre for Atomic Research*

**Development and Application of Eddy Current Test Technique for Testing of Fuel and Clad Tube for Research Reactor**

*Arbind Kumar, Manojit Shaw, P. P. Nanekar, D. Mukherjee, Bhabha Atomic Research Centre*

**Influence of Radiation Heat Transfer on Gap Conductance in a Defective Pellet**

*Niraj Ganesh Jamdade, D. Naga Sivayya, S. Clement Ravi Chandar, S. Raghupathy, P. Puthiyavinayagam, Indira Gandhi Centre for Atomic Research*

**Effect of Inclusion Content in MOX Fuel Pin Performance**

*M. Anoop, T. Rajkumar, D. Naga Sivayya, S. Clement Ravi Chandar, S. Raghupathy, P. Puthiyavinayagam. Indira Gandhi Centre for Atomic Research*

**Development of Out of Pile Version of Fuel Instrumented Capsule for Centre-Line Temperature Measurement**

*M. Muthuganesh, Rajesh Saxena, R. Ravikumar, P. K. Chaurasia, S. Murugan and P. Selvaraj, Indira Gandhi Centre for Atomic Research*

**Cultural Programme : 19:00-20:30 hrs**

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**Day 3: December 07, 2018**

**Plenary Session III** : 09:00 – 11:00 hrs

**Nuclear Fuel Sintering - 50 Years' Experience at ALD**

*Johannes Fachinger, Serge Bertrand, Michae, Oppenländer, Karl-Heinz Grosse, Michael Hohmann, ALD Vacuum Technologies, France*

**Cremer at 50 years**

*Peter Hansen, CEO, Cremer Thermoprozessanlagen GmbH*

**Security of Uranium Supply in upcoming years**

*Alybayev Dauran, Managing Director (Marketing & Sales), JSC NAC Kazatomprom*

**Reducing Pellet Cracks and End Capping on a Rotary Tablet Press**

*Antonie Van Zerbroeck, GEA*

**Tea** : 11:00 – 11:30 hrs



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**PROGRAMME**

**Day 3: December 07, 2018**

**Session VA (Characterization) : 11:30-12:35 hrs**

**Progress on Structural Integrity Characterization on PHWR Fuel Pellets**

*Luiz Alvarez, The National Atomic Energy Association (CNEA)*

**Post Irradiation Characterisation of a 37-Element PHWR Fuel Bundle**

*Prerna Mishra, B. N. Rath, Ashwini Kumar, V. P. Jathar, H. N. Singh, R. S. Shrivastaw,  
V. D. Alur, P. G. Jaison, S. Kannan, G. K. Mallik, J. L. Singh, Bhabha Atomic Research  
Centre*

**Study on Stress Reorientation Behaviour of Hydrides in Zr-2.5%Nb 220MWe Pressure  
Tube samples**

*I. Kalpana Nayak, Rupesh Kumar, S. V. Ramana Rao, K. S. Lakshmi, Dr. Komal Kapoor,  
Nuclear Fuel Complex*

**Machine Vision Based Dimensional Inspection System for End Plugs of PFBR Blanket  
Pin**

*S. K. Agrawal, P. P. Deshpande, Altaf Ali, Y.R.Murthy, V. P. Bhanage, B. Kamlesh Kumar,  
S. V. Nakhe, Raja Ramanna Centre for Advanced Technology, Nuclear Fuel Complex*

**Panel Discussion & Valedictory Function : 12:35 – 13:15 hrs**

**Lunch : 13:15 – 14:00 hrs**

**- - End of Conference - -**



**Characterization & Quality Control of Nuclear Fuels  
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**Day 3: December 07, 2018**

**Session VB (NDT) : 11:30-12:15 hrs**

**Simulation of PHWR Fuel Element End Cap Welding process by Numerical Methods**

*Tanumay Bhattacharya, Sudipta Pramanik, Y. Sanyasi Raju, N. V. Satish Kumar, S. K. Pathak, Dr. D.S. Setty, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Non-destructive Assay of Fissile Material in Lab Waste using Plasma focus Devices**

*S. C. Andola, Ashwani Kumar, Ram Niranjan, R. Shrivastav, A. M. Rawool, D. B. Paranjape, N. Rawat, R. K. Rout, M. K. Saxena, B. S. Toma and T. C. Kaushik, Applied Physics Division, Radioanalytical Chemistry Division, Raja Ramanna Fellow, Since Retired, Bhabha Atomic Research Centre*

**Automatic Fuel Stack Length Verification System in PHWR Fuel element Manufacturing Process**

*G. Sai Krishna, G. Venugopal, N. V. Satish Kumar, Mohd. Salim. T, S. K. Pathak, V. Naga Bhaskar, Dr. D. S. Setty, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Panel Discussion & Valedictory Function : 12:35– 13:15 hrs**

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**POSTERS**

**Investigation of Different Density Measurement Techniques for Final Compacted UO<sub>2</sub> Pellets**

*B. V. Arun Kiran, Y. Sanyasi Raju, G. V. Rama Krishna Murthy, N. V. Satish Kumar, S. K. Pathak, Dr. D. S. Setty, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Determination of Ammonia Cracker Efficiency by Ion Chromatography**

*Shehanaz Bano, G. Brahmananda Reddy, Y. Balaji Rao, Dr. D. S. Setty, C. Phani Babu, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Determination of Phosphate in Uranium Based Solutions Using ICP-AES**

*S. N. V. M. S. Gupta, G. Satyanarayana, Ubaya Bharati Misra, Y. Balaji Rao, Dr. D. S. Setty, C. Phani Babu, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Development of Automatic Pickling System for Zircaloy Components in PHWR Fuel Fabrication**

*Tanumay Bhattacharya, Y. Sanyasi Raju, S. K. Pathak, Dr. D. S. Setty, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**On Transverse Tensile Deformation in Irradiated PHWR Clads**

*Priti Kotak Shah, J. S. Dubey, R. S. Shrivastaw, Ashwini Kumar, B. N. Rath, P. Mishra, V. D. Alur, A. Bhandekar, K. M. Pandit and J. L. Singh, Bhabha Atomic Research Centre*

**Studies on the Electro Oxidative Dissolution of Various Ceramic Nuclear Fuels**

*Dr. R. Sathiya Narayanan, KARP, BARCF*

**Evolution of Microstructure and Microtexture during PHWR Fuel Clad Fabrication through Two Different Routes using EBSD Technique**

*I. Kalpana Nayak, S. V. Ramana Rao, K. S. Lakshmi, Dr. Komal Kapoor, Nuclear Fuel Complex*

**Improvements in the Appendage Welding Units towards Better Quality**

*Atul Singh, N. V. Satish Kumar, S. K. Pathak, Dr. D.S. Setty, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Testing of Machinery Elements with Non-Intrusive Diagnostic Tools**

*S. Srinivasula Reddy, M. Shiva Kumar, N. Ramesh, Meena Ravindran, Nuclear Fuel Complex*



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**POSTERS**

**Recent Developments in the Recycling of Rejected UO<sub>2</sub> Sintered Pellets**

*G. Singh, A. G. Kelkar, B. Surendra, D. B. Sathe, R. B. Bhatt, Bhabha Atomic Research Centre*

**Effect of Laser Welding Parameters on Microstructure of Zircaloy and Fully Austenitic Stainless Steel**

*P. V. Suresh Varma, R. B. Bhatt, Bhabha Atomic Research Centre*

**Performance of EDM profiled Zircaloy Surface in High Temperature and High Pressure Steam**

*Kiran K Mandapaka, Sai Karthik Nouduru, P. S. Maity, R. Dinesh Babu, Gourahari Das, Vivekanand Kain, Bhabha Atomic Research Centre and Nuclear Fuel Complex*

**Automatic PHWR Fuel End Closure Weld Scanning System**

*Mohit Narang, B. Kamalesh Kumar, K. S. Subramanian, Dr. Komal Kapoor, Nuclear Fuel Complex*

**Development of Imaging System Architecture for Performance Enhancement of Pellet Inspection System**

*Priyadarshini Priya, P. P. Deshpande, V. P. Bhanage, Raja Ramanna Centre for Advanced Technology*

**White Staining of Zircaloy -2 Fuel Clad Tubes during Autoclaving- Root Cause & Remedy**

*D. S. R. Theja, B. Indranil, G. Das, B. Chandrasekhar, G. N. Ganesh, M. V. Ramana, Meena Ravindran, Nuclear Fuel Complex*

**Determination of Total Gas Content in ThO<sub>2</sub> based Sintered Fuel Pellets**

*A. Pandey, N. D. Save, V. R. Sonar, A. Kelkar, A. Kumar, V. Kumar, D. B. Sathe, R. B. Bhatt, Bhabha Atomic Research Centre*

**Quality Improvement in Production of PHWR Fuel Tube**

*Pranay Kumar Gupta, G. Das, B. Chnadrashkhar, M. V. Ramana, Meena Ravindran, Nuclear Fuel Complex*





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**POSTERS**

**Process Modifications for Recovery Improvement in Manufacturing of End Plates for PHWR Reactors**

*Vishnu N. K. I, Vinayak Kannao, M. Kamesh, M. V. Ramana, Smt. Meena Ravindran, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**AHWR Fuel Design & Development- An Overview**

*Yogesh Upreti, Vinay Vaze, V. Shivakumar, S. K. Sinha, Bhabha Atomic Research Centre*

**Effect of addition of various Flocculants in UNPS on Ammonium Di-Uranate (ADU) Purity and Stabilized UO<sub>2</sub> Microstructure**

*Aayush, K. Bhoomanna, M. Misra, Deepak Mohanty, Dr. D.S. Setty, Nuclear Fuel Complex*

**Effect of Temperature on Extraction of Uranium from Dilute Aqueous Solutions**

*P. V. S. N. Prudhvi Raju, K. Bhoomanna, P. Babaji, M. Misra, Deepak Mohanty, Dr. D. S. Setty, Nuclear Fuel Complex*

**The Novel Engineering Methods for Increasing the Uranium Throughput in Counter Current Solvent Extraction**

*J. Venkataswamy, Dr. A. L. V. Kumar Reddy, Baidurjya Nath, S. K. Tiwari, K. Yellaiah, D. M. Reddy, M. Misra, S. K Pathak, Dr. D. S. Setty, Dr. Dinesh Srivastava, Nuclear Fuel Complex*

**Laser Assisted Generation of Standard Defects in Sintered UO<sub>2</sub> Pellets**

*Aniruddha Kumar, D. B. Sathe, R.B. Bhatt, Bhabha Atomic Research Centre*

**Study and Analysis of Vibration Related Problems of Three Plunger Reciprocating Pumps and High Pressure Pipelines**

*Nishant Rai, N. S. Dubey, P. Raju, M. Shiva Kumar, N. Ramesh, Meena Ravindran, Nuclear Fuel Complex*

**Mechanized Pneumatic Conveying of Radioactive Powder**

*Ankur Agrawal, Ajai S. S, Puneet Tulsyan, Bhabha Atomic Research Centre*

**Effect of Geometry and Orientation of Lack of Penetration on Its Detectability by using Digital Radiography for PFBR Blanket Pin End Plug Welds**

*Altaf Ali, Y. R. C. Murthy, B. Ravinder, B. Kamalesh Kumar, K. S. Subramanian, Dr. Komal Kapoor, Nuclear Fuel Complex*