

### 1. INTERNATIONAL/ NATIONAL JOURNALS

(i) Optimal Main Heat Transport System Configuration for a Nuclear Power Plant

Avinash J. Gaikwad, Naresh K. Maheshwari, K. Obaidurrahman, Aniket Gupta and Santosh K. Pradhan Nuclear Engineering and Design, Volume 359, April 1, 2020, 110474

(ii) Investigation of Human Factors Using HFACS Framework- A Case Study for Unintended Reactor **Trip Events in NPP** 

M. Karthick, C. Senthil Kumar and T. Paul Robert Reliability, Safety and Hazard Assessment for Risk-Based Technologies, Proceedings of ICRESH 2019, Book Series: Lecture Notes in Mechanical Engineering, Springer 2020

(iii) Investigation of Human Errors using Fuzzy-Bayesian belief Networks

M. Karthick, C. Senthil Kumar, T. Paul Robert and V. Balasubramaniyan Reliability and Risk Assessment in Engineering: Proceedings of INCRS-2018, Book Series: Lecture Notes in Mechanical Engineering, Springer 2020

(iv)Exchange Current Density of Uranium at Liquid Cadmium in LiCl-KCl eutectic

Krishan Kumar, Suddhasattwa Ghosh, B. Prabhakara Reddy J. Electrochem Soc. India Vol: 65 (3-4) July-Oct 2019 pp.192-194

(v) Investigation of Skin Reactions in Complex Interventional Radiology Procedures

A. R. Kulkarni, P. Akhilesh, S. Mahalakshmi, S. D. Sharma Radioprotection 2019, Vol. 54(1), pp. 61–65

# 2. INTERNATIONAL CONFERENCE

(i) Structural and Optical properties of Cerium doped Strontium Borophosphate Glasses

P. Ramakrishna, S. K. Panda, P. Vinod Kumar, D. K. Mohapatra, H. N. Jena and B. S. Panigrahi Proc. of the 6<sup>th</sup> International Conference on 'Luminescence and its Applications-2019' (ICLA-2019), Pt. Ravishankar Shukla University, Raipur; January 7-10, 2019, pp 121

(ii) Structural Integrity Assessment of Turbine Driven Feed Pump Line due to Water Hammer

C. Nachiketa, T. Ramesh, Utkarsh S., Bishnoi Lalaram

Proc. of the Structural Mechanics in Reactor Technology (SMiRT 25), August 2019, Charlotte, North Carolina,

(iii) Simulation of External Flood Routing inside Plant Building using Fluid Structure Interaction **Technique** 

Bishnoi Lalaram, Edumukkala Rakesh, Alajpur Sandeep, Roshan A D, Pisharady Ajai, Acharya Sourav Proc. of the Structural Mechanics in Reactor Technology (SMiRT 25), August 2019, Charlotte, North Carolina, USA

(iv)Safety Assessment of Appurtenances of Containment Structure for Design Extension Condition Bishnoi Lalaram, Mashetty Santosh, Pisharady A, Roshan A D, Harshan Abhijit, Acharya Sourav Proc. of the Structural Mechanics in Reactor Technology (SMiRT 25), August 2019, Charlotte, North Carolina, USA

### (v) Probabilistic Seismic Hazard Analysis of an Alluvial Site

Bishnoi Lalaram, Roshan A D, Pisharady A, Mohammed Vengasseri Anis Proc. of the Structural Mechanics in Reactor Technology (SMiRT 25), August 2019, Charlotte, North Carolina, USA

### (vi) An Approach for Safety Assessment Using Reliability Analysis: A Case Study

Dhanesh B. Nagrale, Santosh K. Pradhan, Avinash J. Gaikwad, L. R. Bishnoi International Conference on System Automation, Reliability, Quality Control, Safety, Maintenance & Management (ICSARQCSMM2019), Jawaharlal Nehru Technological University, Anantapur College of Engineering, Anantapur, Andhra Pradesh, December 11 -13, 2019

### (vii) Performance Analysis of Calandria Vault Dew Point Monitoring System

Prashant Sharma, Nrependra Kumar, Mukesh Singhal, A. J. Gaikwad 3<sup>rd</sup> International and 25<sup>th</sup> National 'Heat and Mass Transfer Conference-2019 (IHMTC-2019), Indian Institute of Technology (IIT) Roorkee, December 28-31, 2019

# (viii) Calculation of view Factor of 37 Pin Fuel Bundle for Indian PHWR using Monte Carlo Method Aniket P. Gupta, Prashant Sharma, Bhanu Prakash B., R. S. Rao, A. J. Gaikwad 3<sup>rd</sup> International and 25<sup>th</sup> National 'Heat and Mass Transfer Conference-2019' (IHMTC-2019), Indian Institute of Technology (IIT), Roorkee, December 28-31, 2019

# (ix) CFD Analysis Case Study-Identify Wall Thinning issue in Feeder Pipes

Dhanesh B. Nagrale, S. K. Pradhan, R. S. Rao, A. J. Gaikwad 3rd International and 25th National 'Heat and Mass Transfer Conference-2019' (IHMTC-2019), Indian Institute of Technology (IIT). Roorkee, December 28-31, 2019

### (x) Comparison of Physics Characteristics of Pressurized Water Reactor Type Advanced Light **Water Reactors**

L. Thilagam, D. K. Mohapatra

Proc. of the 7th International Conference on Advances in Energy Research (ICAER 2019), Indian Institute of Technology (IIT) Bombay, Mumbai, December 10-12, 2019

### 3. NATIONAL CONFERENCES/ SYMPOSIUM/WORKSHOPS

### Theoretical and Experimental Investigations Pertaining to the Corrosion Aspects of Zr-2.5%Nb (i) with Organic Impurities

Krishan Kumar, H. Seshadri, Arup Dasgupta, D. K. Mohapatra, V. Balasubramaniyan Proc. of DAE-BRNS 14th Biennial Symposium on Nuclear and Radiochemistry (NUCAR-2019), Mumbai, January 15-19, 2019

# (ii) Synthesis and Characterization of Cerium doped Strontium Borophosphate Glasses for HLW **Immobilization**

P. Ramakrishna, B. S. Panigrahi, D. K. Mohapatra, H. N. Jena DAE-BRNS 14th Biennial Symposium on 'Nuclear and Radiochemistry-2019' (NUCAR-2019), Mumbai, January15-19, 2019

# (iii) Exchange Current Density Measurements in LiCl-KCl Eutectic Melt for Pyroprocessing **Applications**

Gurudas Pakhui, Suddhasattwa Ghosh, Krishan Kumar, P. Venkatesh, B. Prabhakara Reddy DAE-BRNS 14th Biennial Symposium on 'Nuclear and Radiochemistry-2019' (NUCAR-2019), Mumbai, January 15-19, 2019

#### **HRA Techniques for Risk Assessment in NPPs** (iv)

C. Senthil Kumar

Human Reliability Program in Industries of National Importance by National Institute of Advanced Studies (NIAS) and Texas A&M University-USA at NIAS, Bengaluru, April 24-26, 2019

#### (v) Lanthanide-activated CaBPO, Phosphors for Phototherapy and LEDs Applications

Sitakanta Panda, P. Vinodkumar, P. Ramakrishna, U. Madhusoodanan, B.S. Panigrahi National Conference on Advanced Materials and Environmental Sciences (NCAMES-2019), Kalinga University, Nava Raipur, October 14-15, 2019

### Thermal Neutron Dosimetry using 6LiF:Mg,Ti (MTS-6) and 7LiF:Mg,Ti (MTS-7) based (vi) **Thermoluminescence Detectors**

L. Thilagam, M. R. Priya, D. K. Mohapatra

Proc. of the  $22^{nd}$  National Symposium on Radiation Physics (NSRP-22), Jawaharlal Nehru University (JNU), New Delhi, November 8- 10, 2019

# (vii) Investigation of Attenuation Characteristics of Advanced Shield Materials for Typical Light Water Reactor (LWR) Spectrum

L. Thilagam, M. R. Priva, D. K. Mohapatra

Proc. in the  $22^{nd}$  National Symposium on Radiation Physics (NSRP-22), Jawaharlal Nehru University (JNU), New Delhi, November 8-10, 2019

# (viii) Management of High Activity Sealed Sources in Radiotherapy: Requirements for addressing a key Disposal issue in India

P. K. Dixit, S. Mahalakshmi, Smriti Sharma, G. Sahani and P. K. Dash Sharma Annual Conference of Association of Medical Physicist of India (AMPICON-2019), Kolkata, November 7-9,

### Performance Evaluation of Indigenously developed Ru-106 Eye Plaque for Sealed Source (ix) Classification

Smriti Sharma, S. Mahalakshmi, G. Sahani and P. K. Dash Sharma Annual Conference of Association of Medical Physicist of India (AMPICON-2019), Kolkata, November 7-9, 2019

#### Radiation Safety in Interventional Radiology: Regulatory Requirements (x)

Rajib Lochan Sha, R. K. Chaturvedi, G. Sahani and P. K. Dash Sharma Annual Conference of Association of Medical Physicist of India (AMPICON-2019), Kolkata, November 7-9, 2019

### Type Approval Testing of 60Co Based Indigenous Radiography Camera COCAM-120 for (xi) **Industrial NDT Applications: Regulatory Perspective**

S. Pathak, G. Bokam, G. K. Panda, P. Tandon and P. K. Dash Sharma National Conference of Indian Society for Non-Destructive Testing (NDE-2019), Bengaluru; December 5-7, 2019

### (xii) Radiation Surveillance Procedure in Industrial Radiography

G. Bokam, S. Pathak, G. K. Panda, P. Tandon and P. K. Dash Sharma National Conference of Indian Society for Non-Destructive Testing (NDE-2019), Bengaluru; December 5-7, 2019

# (xiii) Regulatory Requirements and Radiation Safety Aspects for Yttrium-90 based Radioembolization Procedure for the treatment of Hepatocellular Carcinoma

Jolly Joseph K. and Pankaj Tandon

Annual Conference of Society of Nuclear Medicine (SNMICON 2019), Mumbai, December 12-15, 2019

# (xiv) Quality Assurance Protocol of Atomic Energy Regulatory Board (AERB) for the Nuclear **Medicine Imaging Equipment**

Namitha K. K., Pankaj Tandon, S. C. Kheruka and Jolly Joseph

Annual Conference of Society of Nuclear Medicine (SNMICON 2019), Mumbai, December 12-15, 2019

# Removal of Nitrate from Aqueous Stream using in-house Synthesized zero valent iron nano particles

Mansi Garg, Krishan Kumar and H. Seshadri

National Technology Day (NDT-2019), IGCAR, Kalpakkam, July 31, 2019

# (xvi) Investigation of Optically Stimulated Luminescence (OSL) response of common workplace materials for retrospective Dosimetry

M.R. Priya and L. Thilagam

National Technology Day (NDT-2019), IGCAR, Kalpakkam, July 31, 2019

### (xvii) Spatio-temporal Surveillance of Coastal Environment around NPPs

C. Jayalakshmi, C. Anandan and C. Senthil Kumar

National Technology Day (NDT-2019), IGCAR, Kalpakkam, July 31, 2019

### (xviii) Remediation of Areas affected by Radioactive Contamination

H. Seshadri

Awareness Newsletter, June 2019