



DETAILED SCIENTIFIC PROGRAM

DETAILED PROGRAM



Session 1:

Environment, Environmental engineering, Hydrology, Sediment, Safety



Session 2:

Radioactive particles tracking, Tomography, Gamma Scanning, Neutron backscattering



Session 3:

Reservoir, Well, Interwell, Geothermy, Dam, Nuclear waste storage



Session 4:

Methodology, Theory, Modeling, Simulation



Session 5:

Tracing for industry

REMINDER OF INSTRUCTIONS



Oral communication

The time granted will be of 15 minutes
(including setting up, your presentation and a short period of questions)



Flash oral communication

The time granted will be of 4 minutes
(including setting up and your presentation)
Also possible to display the poster at the exhibition poster



Poster exhibition

Display of your poster on the panels provided for this purpose

Tuesday 26 th			Wednesday 27 th			Thursday 28 th		
Welcome 8:00AM-9:00AM			Welcome 8:30AM-9:00AM			Welcome 8:30AM-8:45AM		
Opening talks (20') 9:00AM-9:20AM			Keynote lecture Bjørnstad Tor 9:00AM-09:40AM			Keynote lecture Jean-Pierre Leclerc 8:45AM-09:25AM		
Keynote lecture Samstag Randal 9:20AM-10:00AM			Oral Session 3 - Part 1 09:40AM-10:40AM			Oral Session 5 - Part 1 9:25AM-10:10AM		
10:00 AM	Oral Session 1 -part 1 10:00AM-10:45AM	09:40 AM	232562	09:25 AM	230174			
10:15 AM	220742	09:55 AM	233122	09:40 AM	232420			
10:30 AM	230598	10:10 AM	220199	09:55 AM	232656			
	231698	10:25 AM	233427					
Coffee break (30') 10:45AM-11:15AM			Coffee break (30') 10:40AM-11:10AM			Coffee break (30') 10:10AM-10:40AM		
Oral Session 1 - part 2 11:15AM-12:45AM			Oral Session 3 - Part 2 11:10AM-12:25AM			Flash oral communication Session 3 (1:00) 10:40AM-11:40AM		
11:15 AM	232525	11:10 AM	233116		Oral Session 5 - Part 2 11:40AM-12:25AM			
11:30 AM	232573	11:25 AM	233379	11:40 AM	232702			
11:45 AM	233265	11:40 AM	224600	11:55 AM	233394			
12:00 AM	234767	11:55 AM	233132	12:10 AM	234768			
12:15 AM	234771	12:10 AM	233398	12:25 AM	234783			
12:30 AM	235011							
Lunch (1:30) 12:45AM-2:15PM			Lunch (1:35) 12:25AM-2:00PM			Closing session 12:40AM-13:00PM		
Oral Session 2 - Part 1 2:15PM-3:30PM			Oral Session 4 - Part 1 2:00PM-3:00PM			Lunch (1:30) 13:00PM-2:30PM		
2:15 PM	225052	2:00 PM	233254					
2:30 PM	225053	2:15 PM	233321					
2:45 PM	232221	2:30 PM	234145					
3:00 PM	232495	2:45 PM	234691					
3:15 PM	233098							
Coffee break (30') 3:30PM - 4:00PM			Coffee break (30') 3:00PM-3:30PM					
Flash oral communication Session 1 (1:15) 4:00PM-5:15PM			Oral Session 4 - Part 2 3:30PM-4:15PM					
		3:30 PM	234073					
		3:45 PM	233225					
		4:00 PM	234794					
Oral Session 2 - Part 2 5:15PM-6:15PM			Flash oral communication Session 2 (1:15) 4:15PM-5:30PM					
5:15 PM	233202							
5:30 PM	233274							
5:45 PM	233374							
6:00 PM	234673							
			Gala dinner Start at 8:00PM					



SCIENTIFIC PROGRAM - KEYNOTES LECTURES

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KEYNOTES LECTURES
SPECIAL SESSION

KEYNOTES LECTURES	Reference	Start time	Duration	Oral communication
	K1	Day 1 9:20 AM	40'	Tracer Test and Modelling of Wastewater Treatment Aeration Tanks Samstag Randal Civil and Sanitary Engineer (United States)
	K2	Day 2 9:00 AM	40'	Tracer-Based Well Inflow Monitoring Bjørnstad Tor, Sira Terje Institute for Energy Technology, IFE (Norway)
	K3	Day 3 8:45 AM	40'	Tracer experiments and CFD modeling for a better occupational risk prevention Jean-Pierre Leclerc Head of Process Engineering department, INRS, France



SCIENTIFIC PROGRAM - ORAL COMMUNICATION

DAY 1: Tuesday 26th

S1

ORAL SESSION 1:
DAY 1: Tuesday 26th

Environment, Environmental engineering,
Hydrology, Sediment, Safety

ORAL SESSION 1	Reference	Start time	Duration	Oral communication
	220742	10:00 AM	15'	Radiotracer Study to Ascertain the Efficacy of Fly Ash Disposal Yelgaonkar Vivek Board Of Radiation and Isotope Technology (India)
	230598	10:15 AM	15'	Calibration of a nucleonic gauge for Pacific and Atlantic Oceans: Panama case Pinzon Reinhardt (1), Aguilar (2) (3), Rivera Felipe (1), Hoo Henry (4), Sánchez Xavier (4) 1 - Centro de Investigaciones Hidráulicas e Hidrotécnicas (CIHH). Universidad Tecnológica de Panamá (UTP) (Panama), 2 - Facultad de Ciencia y Tecnología de la Universidad Tecnológica de Panamá (Panama), 3 - Universidad Tecnológica de Panamá (Panama), 4 - Facultad de Ingeniería Civil. Universidad Tecnológica de Panamá (UTP) (Panama)

ORAL SESSION 1	231698	10:30 AM	15'	Investigation of Hydrodynamics of an Electrocoagulation Reactor for Water Defluoration using Radiotracer Technique Ben Abdelouahed Haifa Centre National des Sciences et Technologies Nucléaires (Tunisia)
	232525	11:15 AM	15'	Evaluation of Hydraulic Performance of an Anaerobic Pond using Radiotracer Technique Wendy Adwet Institute of Nuclear Science and Technology, University of Nairobi (Kenya)
	232573	11:30 AM	15'	Optimization of the Accuracy Measurement with Nuclear Gamma Gauge for high suspended Cohesive Sediments Concentration Ouardi Afaf CNESTEN (Morocco)
	233265	11:45 AM	15'	Calibration of the Gauge of Density XDP30 Saadaoui Abdelaziz, Jainija Alaa, Abdelghafour Ezzahri, Outayad Rabie CNESTEN (Morocco)
	234767	12:00 AM	15'	Anaerobic Digesters Mixing Optimization through Tracer Test and CFD Modeling Arnau Rosario (1), Climent Javier (2), Martínez-Cuenca Raúl (1), Chiva Sergio (1) 1 - Universitat Jaume I (Spain), 2 - Grupo Gimeno (Spain)
	234771	12:15 AM	15'	Monte Carlo Modeling of the Potential Distribution of Internal Dose based on Random Active Particle Location to Organisms in the Sediment Bed Ouardi Afaf (1), Chughes Cath (2) 1 - Centre National de l'Energie des Sciences et des techniques Nucléaires (Morocco), 2 - Australian Nuclear Science and Technology Organisation (ANSTO) (Australia)
	235011	12:30 AM	15'	Transfer of Micropollutants by Urban Run-off with Different Hydrological Scenarios Motelica Mikael (1), Al Juhaishi Mohammed (2), Muller Fabrice (2) 1 - Institut des Sciences de la Terre d'Orléans (France), 2 - ISTO (France)

S2

ORAL SESSION 2:
DAY 1: Tuesday 26th

Radioactive particles tracking, Tomography,
Gamma Scanning, Neutron backscattering

ORAL SESSION 2	Reference	Start time	Duration	Oral communication
	225052	2:15 PM	15'	Microalgae Cell Trajectories via Radioactive Particle Tracking (RPT) Sabri Laith (1), Sultan Abba (2), Aldahhan Muthanna (3) (4) 1 - Multiphase Flow and Reactors Engineering Applications Laboratory (mFReal) (United States), 2 - Chemical Engineering Department in University of Technology (Iraq), 3 - Multiphase Flow and Reactors Engineering Applications Laboratory (mFReal) (United States), 4 - Cihan University-Erbil, Iraq (United States)

ORAL SESSION 2	225053	2:30 PM	15'	<p>Local Gas Holdup in Fluidized Bed Reactor using Gamma-ray Computed Tomography Technique (CT) Efhaima Abdelsalam (1), Sabri Laith (2), Aldahhan Muthanna (3) (4) 1 - Higher Colleges Of Technology, Abu Dhabi (United Arab Emirates), 2 - Multiphase Flow and Reactors Engineering Applications Laboratory (mFReal) Department of Chemical and Biochemical Engineering, Missouri University of Science and Technology (United States), 3 - Multiphase Flow and Reactors Engineering Applications Laboratory (mFReal) (United States), 4 - Cihan University-Erbil, Iraq (United States)</p>
	232221	2:45 PM	15'	<p>Development of Gamma Column Scanning by CT Scanning Technique for Lab-Scale Column Myaing Khaing Nyunt (1), Oo Zin Bo (2), Htut Myo Zaw (2) 1 - Atomic Energy Division (Myanmar, Burma), 2 - Nuclear Physics Department (Myanmar, Burma)</p>
	232495	3:00 PM	15'	<p>Fluka Monte Carlo Simulation of Gamma Photon Transport through a Distillation Column, Designed using ChemSep Software Baricholo Peter, Chirume Witness, Mudono Stanford National University of Science and Technology (Bulawayo) (Zimbabwe)</p>
	233098	3:15 PM	15'	<p>Experimental Research on Dynamic Paraffin Visualization Using Gamma-Ray Tomography Technique Wibisono Wibisono Center for Isotope and Radiation Application, Batan (Indonesia)</p>
	233202	5:15 PM	15'	<p>Gamma Scanning Technique for Investigating De-Ethanizer Column: On Field Experimental at NGL Plant Azmi Bayu Center for Isotopes and Radiation Application- Batan (Indonesia)</p>
	233274	5:30 PM	15'	<p>Liquid Level Measurement in Distillation Column Simulator by Neutron Backscattering Technique Lwin Khin Ye (1), Hlaing Moe Phyu Division of Atomic Energy (Myanmar, Burma)</p>
	233374	5:45 PM	15'	<p>Using the Gamma Scan Technique for Diagnostic and Troubleshooting in Industrial Plants Duy Dang, Minh Tran Centre for Applications of Nuclear Technique in Industry (Vietnam)</p>
	234673	6:00 PM	15'	<p>Hydrodynamics of Binary Fluidized Bed Employing Radioactive Particle Tracking Roy Shantanu (1), Pant Harish J. (2), Roy Sangram (1) 1 – indian Institute of technology (India), 2 - Isotope Production and Applications Division, Bhabha Atomic Research Centre (India)</p>

DAY 2: Wednesday 27th

S3

ORAL SESSION 3:
DAY 2: Wednesday 27th

Reservoir, Well, Interwell, Geothermy,
Dam, Nuclear waste storage

Reference	Start time	Duration	Oral communication
232562	9:40 AM	15'	Natural Stable Isotopes To Detect Leakage In Mining Tailings Dams Moreira Rubens Nuclear Technology Development Center (Brazil)
233122	9:55 AM	15'	Application of Tracer Techniques in Investigation of Leakage in Earthen Dam Nguyen Huu Quang Huong Huynh Thi Thu (Vietnam)
220199	10:10 AM	15'	Application of Radiotracer Techniques for Geothermal Reservoir Management in Kenya Omondi Collins (1), Mangala Micheal (2) 1 - Kenya Bureau of Standards (KEBS) (Kenya), 2 – University of Nairobi (Kenya)
233427	10:25 AM	15'	Using Tracer Tests in the Management of Reinjection into Geothermal Systems Axelsson Gudni Iceland GeoSurvey (Iceland)
233116	11:10 AM	15'	Tracer Class Combination for Interwell Tracer Tests ? Joining Cost-effective Robustness to State-of-the-Art Selectivity Puls Christoph, Schnöller Johannes, Davidescu Bogdan-George, Kadnar Rainer OMV Exploration & Production GmbH (Austria)
233379	11:25 AM	15'	Investigation of Structural Properties of Barrier Materials for Nuclear Waste Storage using Non-radioactive Tracers Erenturk Sema, Hacıyakupoglu Sevilay, Senkal Filiz Istanbul Technical University (Turkey)
224600	11:40 AM	15'	Investigation of Radiotracer's Capability in Water Flooding System using Laboratory Sand Pack Column: A Preliminary Study Othman Noraishah Plant Assessment Technology, Malaysian Nuclear Agency (Malaysia)
233132	11:55 AM	15'	Tracer for Determination of Dispersion Coefficient of Water in Core Sample Nguyen Huu Quang (1) (2) (3) 1 - Huong Huynh Thi Thu (Vietnam), 2 - Noha Najem (Kuwait), 3 - Waleed Al-Bazzar (Kuwait)
233398	12:10 AM	15'	Non Target Monitoring Tracers and Emerging Tracers for Enhanced Reservoir, Well Integrity and Risk Management Preud'homme Hugues (1), Mahmoud Khaled (2), Shomar Basem (2), Reynaud Stéphanie (1), Grassl Bruno (1) 1 - IPREM-UMR5254, E2S (France), 2 - QEERI - HBKU (Qatar),

ORAL SESSION 3

ORAL SESSION 4	Reference	Start time	Duration	Oral communication
	233254	2:00 PM	15'	Review of the International Standard ISO 2975 on Tracer Methods for the Measurement of Single-phase Flows in Closed Conduits Jentsch Thorsten B. O. (1), Thereska Jovan (2), Brisset Patrick (3) 1 - Helmholtz-Zentrum Dresden-Rossendorf (Germany), 2 - IAEA expert and consultant (Austria), 3 - IAEA (Austria)
	233321	2:15 PM	15'	Recent Status of Industrial Application using Radioisotope in Korea Moon Jinho, Sung-Hee Jung, Jang-Guen Park Korea Atomic Energy Research Institute (South Korea)
	234145	2:30 PM	15'	Numerical RTD as a Tool for Compartmental Modeling of Water Basin Jourdan Nicolas (1) (2) 1 - Laboratoire Réactions et Génie des Procédés (France), 2 - EDF R&D (France)
	234691	2:45 PM	15'	Comparison between Potassium Bromide and Lithium Chloride as Feasible Tracer for Assessing Hydraulic Performance in Anaerobic Digesters Climent Javier (1), Corominas Lluís (2), Kyser Ayla (2), Arnau Rosario (1), Chiva Sergio (1), Pita Cristina (3), Bonmatí August (4) 1 - Universitat Jaume I (Spain), 2 - Instituto Catalán de Investigación del Agua - ICRA (Spain), 3 - Universitat de Girona (Spain), 4 - IRTA (Spain)
	234073	3:30 PM	15'	Significance of Quality Management Systems in Tracer Services to Industry Masinza Stanslaus Alwyn Technical Services (Kenya)
	233225	3:45 PM	15'	Utilization of Efficient Signal Processing Techniques for Sealed Sources Radioisotopes Identification Kasban Hani Engineering Department, Nuclear Research Center (Egypt)
	234794	4:00 PM	15'	Numerical Tracer Simulation in Algal Raceway Pond using Momentum Source and Dynamic Mesh Methods Teshome Tewodros, Pham Le Anh, Laurent Julien ICUBE Laboratoire des sciences de l'ingénieur, de l'informatique et de l'imagerie (France)

Reference	Start time	Duration	Oral communication
230174	9:25 AM	15'	Identification of Flow Abnormalities in Pulp Digesters using Radiotracers Sheoran Meenakshi (1), Chandra Avinash (1), Goswami Sunil (2), Sharma Vijay K. (2), Pant Harish J. (2), Bhunia Haripada (1), Gautam Arvind K. (3) 1 - Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala (India), 2 - Isotope Production and Applications Division, Bhabha Atomic Research Centre (India), 3 - Chemical Engineering Department, R.B.S. Engineering Technical Campus, (India)
232420	9:40 AM	15'	Use of Radioactive Tracers for Measurement of Flowrate Distribution in Industrial Flotation Circuits Diaz Francisco (1), Bustos Pablo (2), Vinnett Luis (3), Vallejos Paulina (3), Yianatos Juan (3) 1 - Trazado Nuclear (Chile), 2 - Minera Los Pelambres (Chile), 3 - Universidad Santa Maria (Chile)
232656	9:55 AM	15'	Determination of Leaks and Passes in Vapour Generators by the use of Proper Radiotracer for Aqueous and Organic Phases Sebastian Carlos Universidad Ricardo Palma-Centro de Investigacion (Peru)
232702	11:40 AM	15'	Residence Time Distribution Measurements in a Pilot-Scale Cross Flow Trickle Bed Reactor using Radiotracer Technique Pant H.j. Bhabha Atomic Research Center (India)
233394	1:55 AM	15'	Determination of Residence Time and Performance of a Heat Exchanger in a Natural Gas Fractionation Plant of Liquids Maghella Gerardo, Maguiña Jose Instituto Peruano de Energia Nuclear (Peru)
234768	12:10 AM	15'	The Torus Photobioreactor : A Tool for Metabolic Flux Analysis Legrand Jack University of Nantes (France)
234783	12:25 AM	15'	Radiometric Methods for Optimization of Phosphate Transport Process by « Slurry Pipe » Mimount Samira (1), Alami Rachad (2), Saadaoui Abdelaziz (1) 1 - Centre National de l'Energie des Sciences et Techniques Nucléaires (Morocco), 2 - Rachad (Morocco)



SCIENTIFIC PROGRAM – FLASH ORAL COMMUNICATION

DAY 1: Tuesday 26th

P1

FLASH ORAL COMMUNICATION
DAY 1: Tuesday 26th

4:00PM-5:15PM

4 min per presentation

Reference	Duration	Presentation of the communication
235362	4'	Modelization of the Aeraulic in a Wood-burning Appliance Roda Bounaceur (1), Olivier Herbinet (1), Frédérique Battin Leclerc (1), Jean-Pierre Leclerc (1*), Céline Le Dreff (2), Sylvain Aguinaga (2), Frédéric Robic (3) 1- Laboratoire Réaction et Génie des Procédés, LRGP UMR 7274 - CNRS, France, 2 - CSTB, France, 3 - LORFLAM, France, *Jean-Pierre leclerc is now working at INRS, Institut National de Recherche et de Sécurité pour la prévention des accidents du travail et des maladies professionnelles
229374	4'	Soil Radioactivity and Erosion around Ugii lake of Arkhangai province in Mongolia Tseveen Erkhembayar Erkhembayar Tseveen (Mongolia)
230822	4'	Hybrid Clay Composites based on Nonionic Surfactants as potential Solutions in Water Remediation Guégan Régis (1) (2) 1 - Institut des Sciences de la Terre d'Orléans (France), 2 - Faculty of Science and Engineering (Japan)
231832	4'	A study to investigate the Use of Natural Radionuclides as Radiotracers in Sedimentation Processes Bezuidenhout Jacques Stellenbosch University (South Africa)
232760	4'	Use of the Radiotracer Technique for the Evaluation of Sanitary Networks Derivet Milagros, Fernández Gómez Isis, Carrazana González Jorge, Capote Ferreira Eduardo, Cuesta Borges Jaime, Flores Juan Pedro Centro de Protección e Higiene de las Radiaciones (CPHR) (Cuba)
233085	4'	Development and Qualification of Underwater Radiation Monitoring System Park Jang-Guen (1), Jung Sung-Hee (1), Jinho Moon (1), Daemin Oh (2), Sungwon Kang (2), Kim Youngsug (2) 1 - Korea Atomic Energy Research Institute (South Korea), 2 - Korea Institute of Civil Engineering and Building Technology (South Korea)
233434	4'	Historical Review of the Studies performed by CDTN in Latin America, using Tracers in the Fields of Sediment Transport and Dispersion of Effluents in Water Environment Bandeira Jefferson (1), Salim Lécio (1), Aun Pedro (1), Bomtempo Virgílio (1), Moreira Rubens (1), Pinto Amenônia (1), Minardi Paulo (1), Castro José (1), Wilson Jr Geraldo (2) 1 - Nuclear Technology Development Center, CDTN (Brazil), 2 - Federal University of Rio de Janeiro, UFRJ-COPPE (Brazil)

FLASH ORAL COMMUNICATION – SESSION 1

234233	4'	<p>Determination of trace Elements in Surface Water at Xuan Huong Lake – Dalat City using Total ? Reflection X-Ray Fluorescence (TXRF)</p> <p>Nguyen An Son, Thi Ngoc Ha Pham, Dong Suk Soo, Thi Nguyet Ha Nguyen, Dinh Trung Nguyen, Ngoc Dieu Quynh Tran, Viet Huy Le, Sang Thi Minh Nguyen, Lan Thi Ha Le, Tuoi Thi Bui</p> <p>Dalat University (Vietnam)</p>
234641	4'	<p>Characterizing Sediments for Black Sands as Possible Radiotracer for Sediment Transport Studies</p> <p>Kilel Kennedy (1) (2), Mangala Michael (1), Gatari Michael (1), Mathu Eliud (3), Koech Nehemiah (1)</p> <p>1 - Institute of Nuclear Science and Technology, University of Nairobi (Kenya), 2 - School of Science and Technology, Faculty of Military Science, Stellenbosch University (South Africa), 3 - Institute of Mineral Processing and Mining, South Eastern Kenya University (Kenya)</p>
234759	4'	<p>Analysis of Residence Time Distribution using Radioactive tracer Technique for a Waste Water Treatment Unit at Tema Oil Refinery</p> <p>Appiah Godfred Kofi (1), Danso Kwaku (2), Akaho Edward (2)</p> <p>1 - Ghana Atomic Energy Commission (Ghana), 2 - University of Ghana (Ghana)</p>
236021	4'	<p>Evolution of Residence Time Distribution for an s-MBR over an Acclimation Period operating at infinite Sludge Retention Time : an Experimental Approach</p> <p>Arce Velasquez Juan David, Laurent Julien</p> <p>ICUBE Laboratoire des sciences de l'ingénieur, de l'informatique et de l'imagerie (France)</p>
220745	4'	<p>Investigation of Cause of Temperature Variation Across a Packed Bed</p> <p>Yelgaonkar Vivek</p> <p>Board of Radiation and Isotope Technology (India)</p>
223754	4'	<p>Investigation of Distillation Column Malfunctions in the Zimbabwean Chemical Industry using Gamma Ray Scanning Technique</p> <p>Chirume Witness (1), Baricholo Peter (1), Mudono Stanford (1), Alami Rachad (2)</p> <p>1 - National University of Science and Technology (Bulawayo) (Zimbabwe), 2 - Centre National de L'Energie Des Sciences et Des Techniques Nucleaires (Morocco)</p>
225056	4'	<p>Hydrodynamics in Internal-loop Airlift Reactor via non-invasive Gamma Ray Techniques</p> <p>Sabri Laith (1), Sultan Abbas (2), Aldahhan Muthanna (3) (4)</p> <p>1 - Multiphase Flow and Reactors Engineering Applications Laboratory (mFReal) Department of Chemical and Biochemical Engineering, Missouri University of Science and Technology (United States), 2 - Chemical Engineering Department in University of Technology (Iraq), 3 - Multiphase Flow and Reactors Engineering Applications Laboratory (mFReal) (United States), 4 - Cihan University-Erbil, Iraq (Iraq)</p>
225059	4'	<p>Characterize the non-similarity scale-up methodology based on Dimensionless Groups of Gas-solid Spouted Beds via (RPT) and (CT)</p> <p>Ali Neven (1), Al-Juwaya Thaar (2), Sabri Laith (3), Aldahhan Muthanna (2) (4)</p> <p>1 - Nuclear Engineering, University of New Mexico (United States), 2 - Multiphase Flow and Reactors Engineering Applications Laboratory (mFReal) (United States), 3 - Multiphase Flow and Reactors Engineering Applications Laboratory (mFReal) Department of Chemical and Biochemical Engineering, Missouri University of Science and Technology (United States), 4 - Cihan University-Erbil, Iraq (Iraq)</p>

	227493	4'	Design and Development of Distillation Column Model Hlaing Mp Division of Atomic Energy, Department of Research and Innovation, Ministry of Education, Myanmar (Myanmar, Burma)
	230449	4'	Ring Scan Gamma CT system and Image Reconstruction with Sparse Views Jung Sung-Hee (1), Moon Jinho (1), Park Jang-Geun (1), Park Miran (2), Cho Seungryong (2) 1 - Korea Atomic Energy Research Institute (South Korea), 2 - Korea Advanced Institute of Science and Technology (South Korea)
	232511	4'	A Calibration Facility for In-Situ Gamma-Ray Detector Sehone Alfred (1), Newman Richard (2), Maleka Peane (3) 1 - South African Military Academy (South Africa), 2 - Stellenbosch University (South Africa), 3 - iThemba LABS (South Africa)

DAY 2: Wednesday 27th

P2

FLASH ORAL COMMUNICATION
DAY 2: Wednesday 27th

4:15PM-5:30PM

4 min per presentation

FLASH ORAL COMMUNICATION – SESSION 2	Reference	Duration	Presentation of the communication
	232514	4'	Design and Application of Gamma Densitometer on pipes by using Cs-137 (0.662 MeV) Gamma Photon Shein Hnitthit Ministry of Education (Myanmar, Burma)
	232700	4'	Effect of Additives on Anti-Wear Properties of Lubricant Studied by Thin Layer Activation Technique Biswal Jayashree Bhabha Atomic Research Centre (India)
	232963	4'	Investigation of Wear Properties of Different Materials by using Thin Layer Activation (TLA) with Activities under the Free Handling Limit (FHL) Ditroi Ferenc (1), Takacs Sandor (1), Wopelka Thomas (2), Jech Martin (2) 1 - Institute for Nuclear Research (Hungary), 2 - Austrian Competence Center for Tribology (Austria)
	232987	4'	Application Of Gamma Computed Tomography (CT) In The Determination Of Agarwood Formation And Pipeline Scaling Affum Hannah (1), Abdelwahed Haifa (2), Abdulla Jaafar (3) 1 - Ghana Atomic Energy Commission, National Nuclear Research Institute (Ghana), 2 - Centre National des Sciences et Technologies Nucléaires (Tunisia), 3 - Malaysia Nuclear Agency (Malaysia)
	233302	4'	Gamma Scanning Application in Column Scanning Kairu Wilson Institute of Nuclear Science & Technology, University of Nairobi (Kenya)
	234643	4'	Radio graphic Examination of Fabricated Products (« Jua Kali ») in Kenya Mangala Michael Institute of Nuclear Science and Technology, University of Nairobi (Kenya)

234689	4'	Neutron Backscatter Gauge for the Measurement of Different Phases : Scans and Modelisation Outayad Rabie Centre National de L'Energie Des Sciences et Des Techniques Nucleaires (CNESTEN) (Morocco)
234738	4'	Imaging Deposits and Corrosion of Pipes by Tomography Saadaoui Abdelaziz, Abdelghafour Ezzahri, Jainija Alaa , Outayad Rabie Centre National de L'Energie Des Sciences et Des Techniques Nucleaires (CNESTEN) (Morocco)
234748	4'	Malfunction Investigation in Catalyst Column Using Industrial Gamma Scanning Wibisono Wibisono, Rahmatia Firliyani, Azmi Bayu, Stefanus Megy Center for Isotopes and Radiation Application- BATAN (Indonesia)
233387	4'	Thermodynamic Behaviors of Selenium Ions onto Barrier Material using Radiotracer Technique Haciyakupoglu Sevilay, Erenturk Sema Istanbul Technical University (Turkey)
233124	4'	Leaching of Oil/Water Partitioning Compounds from Immobile and Bypassed Oil in Porous Media Nguyen Huu Quang Huong Huynh Thi Thu (Vietnam)
234745	4'	Challenges in the Applications of Radioisotopes in Nigerian Industries Okoh Sunday (1), Arabi Suleiman (2) 1 - Centre for Energy Research and Training (Nigeria), 2 - Department of Geology (Nigeria)
230820	4'	Performance Assessment of Dynamic Systems using Analytic Solution Ali Elsayed (1), Kasban Hani (2) 1 - Engineering Department, Nuclear Research Center, Atomic Energy Authority (Egypt), 2 - Engineering Department, Nuclear Research Center (Egypt)
234787	4'	Data Fusion Approach for Improving the Reliability of Radiographic Testing and other Complementary NDT Techniques Oujebbour Fatima Zahra Division of Industrial Applications, National Center of Energy Science and Nuclear Techniques (CNESTEN) (Morocco)
233335	4'	Simulations for Industrial Radiotracers Experiments Elmoujarkach Ezzat , Siddig Mohammed Mohammed, Banoqitah Essam, Mousa Tariq King Abdulaziz University (Saudi Arabia)
-	4'	Problem of the Sensitivity of Schmidt Number in Simulation of Tracing with CFD Olivier Potier, Rainier Hreiz (1), Julien Laurent (2) 1 - LRGP (Nancy, France), 2 - ICUBE Laboratoire des sciences de l'ingénieur, de l'informatique et de l'imagerie (Strasbourg, France)
232822	4'	Some Thermodynamic Aspects of Tracer Plumes evolving in Natural Streams at « Dynamic Equilibrium » Constaín Alfredo Hydrocloro Technologies S.A.S (Colombia)
235765	4'	Development of "Compartmental Modelling" Methodology of Flowing Systems with or without Chemical Reaction Using Tracing Experiments and Computational Fluids Dynamics Simulations Jean-Pierre Leclerc, Jérémie Haag Institut National de Recherche et de Sécurité, INRS (France)

DAY 3: Thursday 28th

P3

FLASH ORAL COMMUNICATION
DAY 3: Thursday 28th

10:40AM-11:40AM
4 min per presentation

Reference	Duration	Presentation of the communication
230497	4'	Monitoring of Copper Recovery from Flotation Tailings by Leaching Process Using Radiotracer Rogowski Marcin (1), Smolinski Tomasz (1), Pyszynska Marta (1), Owczarek Dominik (2), Chmielewski Andrzej (1) 1 - Institute of Nuclear Chemistry and Technology (Poland), 2 - Faculty of Chemical and Process Engineering Warsaw University of Technology (Poland)
230819	4'	Flow rate Measurement in Water Pipelines using Radiotracer Technique Ali Elsayed (1) (2) 1 - Engineering Department, Nuclear Research Center, Atomic Energy Authority (Egypt), 2 - Engineering Department, Nuclear Research Center (Egypt)
232231	4'	Experimental RTD Modeling in a Liquid Flow System using Deconvolved Radiotracer Response Signals Abdelbari Amar Department of NDT, Sudan Atomic Energy Commission (Sudan)
233183	4'	Radiotracer Investigation of Clinker Milling at East African Portland Cement Gitau Jimmy (1) (2), Gatari Michael (2) 1 - Kenya Bureau of Standards (Kenya), 2 - Institute of Nuclear Science and Technology, University of Nairobi (Kenya)
233283	4'	Application of Radiotracer Technology: Laboratory Experiments and Modelling using Flow Rig Kairu Wilson Institute of Nuclear Science & Technology, University of Nairobi (Kenya)
233478	4'	Leak Test in Underground Hydrocarbon Pipeline using Pig-radiotracer Method Sugiharto Sugiharto Sugiharto Sugiharto (Indonesia)
234788	4'	Stability Study of Gold -198 Nanoradiotracer in Petroleum Derivatives Kenup-Hernandes Hericka (1), Barreira Brandão Luís Eduardo (1), Ambrósio Roque Evelin (1), Ramos Gonçalves Eduardo (2), Xavier Da Silva Ademir (3) 1 - Instituto de Engenharia Nuclear (Brazil), 2 - Instituto Federal Fluminense (Brazil), 3 - Programa de Engenharia Nuclear (Brazil)
235760	4'	Investigations of Sparger Design Effect on Residence Time Distribution in Bubble Column Reactor Using Industrial Radiotracer Au-198 and Tc-99m Mohd Yunos Mohd Amirul Syafiq (1), Hussain Siti Aslina (2), Yusoff Hamdan Mohamed (2) 1 - Plant Assessment Technology Group, Industrial Technology Division, Malaysia Nuclear Agency, Malaysia (Malaysia), 2 - Department of Chemical and Environmental Engineering, Universiti Putra Malaysia, Malaysia (Malaysia)
236253	4'	Use of I123 Radiotracer to Model the Oil Non-Ideal Laminar Flows in Pipelines Gonçalves Eduardo (1), Brandão Luis Eduardo (2), Hernandez Hericka (2), Dualibi Filho Julio Cesar (3), Braz Delson (4) 1 - Eduardo Ramos Gonçalves (Brazil), 2 - Luis Brandão (Brazil), 3 - Hericka Hernandez (Brazil), 4 - Julio Cesar Dualibi (Brazil), 5 - Delson Braz (Brazil)

FLASH ORAL COMMUNICATION – SESSION 3

220743	4'	Investigation of the Cause of Decrease in PTA Production Yelgaonkar Vivek Board of Radiation and Isotope Technology (India)
220744	4'	Identification of leaky heat Exchanger in a Series using Mo-99 as Radiotracer Yelgaonkar Vivek Board of Radiation and Isotope Technology (India)
225055	4'	Liquid Mixing Behavior in Upflow Moving Bed Hydrotreater Reactor (MBR) Reactor Using Advanced Liquid Tracer Technique Alexander Vineet (1), Al-Bazzaz Hamza (2), Aldahhan Muthanna (1) 1 - Multiphase Flow and Reactors Engineering Applications Laboratory (mFReal) (United States), 2 - Kuwait Institute of Scientific Research (Kuwait)
225058	4'	Gas Phase Mixing Behavior in Upflow Moving Bed Hydrotreater Reactor (MBR) Using Advanced Gas Tracer Technique Alexander Vineet (1), Al-Bazzaz Hamza (2), Aldahhan Muthanna (1) (3) 1 - Multiphase Flow and Reactors Engineering Applications Laboratory (mFReal) (United States), 2 - Kuwait Institute of Scientific Research (Kuwait), 3 - Cihan University-Erbil, Iraq (Iraq)
225060	4'	Axial Dispersion and Mixing of Coolant Gas within a Separate-effect Prismatic Modular Reactor Said Ibrahim (1), Taha Mahmoud (1), Alexander Vineet (2), Aldahhan Muthanna (2) (3) 1 - Chemical Engineering Department, Faculty of Engineering, Alexandria University, Egypt (Egypt), 2 - Multiphase Flow and Reactors Engineering Applications Laboratory (mFReal) (United States), 3 - Cihan University-Erbil, Iraq (Iraq)
230325	4'	Solvent Extraction Process for the Recovery of Copper from Flotation Tailings Investigated Using Radiotracer Smolinski Tomasz (1), Herdzik-Koniecko Irena (1), Rogowski Marcin (1), Pyszynska Marta (1), Owczarek Dominik (2), Chmielewski Andrzej (1) 1 - Institute of Nuclear Chemistry and Technology (Poland), 2 - Faculty of Chemical and Process Engineering Warsaw University of Technology (Poland)



SCIENTIFIC PROGRAM – POSTER EXHIBITION

P4

POSTER EXHIBITION



	Reference	Presentation of the communication
POSTER EXHIBITION	234692	<i>Hydraulic Study of a real Scale Subsuperficial Flow constructed Wetland using CFD Simulation and Tracer Experiments</i> Climent Javier (1), Miguel David (1), Garcia-Tirado Ruben (2), Chiva Sergio (2), Arnau Rosario (2), Martinez-Cuenca Raul (2) 1 - FACSA (Spain), 2 - Universitat Jaume I (Spain)
	233309	<i>Isotope Tracing Application in Source Apportionment of Tropospheric Black Carbon in Nairobi, Kenya</i> Kirago Leonard (1) (2), Kiriinya Lindah (2), Ng'ang'a David (2), Gatari Michael (2), Andersson August (1) 1 - Stockholm University (Sweden), 2 - Institute of Nuclear Science and Technology, University of Nairobi (Kenya)
	234094	<i>Use of Radioactive Tracers and Nucleonic Gauges to solve Problems related to Sediment Transport in Dam's Channels and the Origin of Stagnant Water in some Dam's Plots faced by the INGA Site</i> Kabeya Ngalamulume Dieudonné (1), Kawende Omer (2) 1 - C.G.E.A/C.R.E.N-K (Congo, Kinshasa), 2 - SNEL (Congo, Kinshasa)
	234693	<i>Tracer Techniques for Validating CFD Modelling of Open Channel UV Disinfection Systems</i> Climent Javier (1), Gargallo Sara (1), Chiva Sergio (2), Martinez-Cuenca Raul (2), Carratala Pablo (3), Garcia Mairena (1) 1 - FACSA (Spain), 2 - Universitat Jaume I (Spain), 3 - Universtat Jaume I (Spain)