

IYNCWIN18

Monday

08:30 – 09:00 am: Registration

Location: PAN - Lobby

09:00 – 10:00 am: Opening session

Location: PAN – Las Américas

Co-Managers:

Melina Belinco, CNEA, Argentine Republic
Gustavo Gimenez, AYNG., Argentine Republic

Speakers:

- JUANA GERVASONI, PRESIDENT, WIN ARGENTINA, ARGENTINE REPUBLIC
- CRISTIAN ARIEL VEGA, PRESIDENT, AYNG, ARGENTINE REPUBLIC
- GABRIELE VOIGT, PRESIDENT, WIN GLOBAL, GERMANY
- DENIS JANIN, PRESIDENT, IYNC, FRANCE/GERMANY
- OSVALDO CALZETTA, PRESIDENT, CNEA, ARGENTINE REPUBLIC
- OMAR SEMMOLONI, PRESIDENT, Nucleoeléctrica Argentina S.A, ARGENTINE REPUBLIC
- JULIAN GADANO, UNDERSECRETARY OF NUCLEAR ENERGY, ARGENTINE REPUBLIC

10:00 – 10:30 am: Coffee Break

Location: PAN

10:30 – 12:30 am: IYNC Country/WiN Chapter Reports

Location: PAN – Las Américas

Co-Managers:

Guadalupe Boado, CNEA, Argentine Republic
Fidelma Di Lemma, INL, United States of America

12:30 – 01:00 pm: Group Photo

Location: BEC Beach

01:00 – 02:00 pm: Lunch

Location: BEC - Palace

02:00 – 03:30 pm: Keynote Session. Challenge the present, Empower the future.

Location: PAN – Las Américas

Manager: Mayank Sood, Kinectrics, Canada

Speakers:

- JUAN PABLO ORDONEZ, DEPUTY CEO, INVAP S.E., ARGENTINE REPUBLIC
- DING JIAN, VICE-PRESIDENT, CNNC/CZEC, PEOPLE'S REPUBLIC OF CHINA
- MARY ALICE HAYWARD, DEPUTY DIRECTOR GENERAL, IAEA, AUSTRIA
- WILLIAM D. MAGWOOD, DIRECTOR GENERAL, OECD/NEA, FRANCE

03:30 – 04:00 pm: Coffee Break

Location: PAN

04:00 – 5:30 pm: Technical tracks

TS01A: NPPs OPERATION, MAINTENANCE AND DESIGN MODIFICATION

Location: PAN - Los Jardines

Manager: Julian Robert Milthorpe, ANSTO, Australia

Electrical power system modeling of Atucha II nuclear power plant using ETAP.

- NICOLÁS ALEJANDRO MALINOVSKY
Nucleoeléctrica Argentina S.A., Argentine Republic

Atucha I NPP electrical system response against open phase events

- JUAN MANUEL MIR
Nucleoeléctrica Argentina S.A., Argentine Republic

Automatic control system for steam pressure regulation in a steam generator using oil heat accumulators

- ALEKSEI PAVLOVICH SHCHUKLINOV
Joint Stock Company Scientific Research and Design Institute for Energy Technologies ATOMPROEKT (JSC ATOMPROEKT), Russian Federation

Evaluation of the SG clogging phenomena kinetics by gamma-Ray counting

- PATRICIA SCHINDLER, LAURENT LOUBET, VERONIQUE POINTEAU
CEA CADARACHE, France

TS04A: THERMAL HYDRAULICS

Location: NH - Amancay

Manager: Lavinia Raganelli, Imperial College London, United Kingdom

Co-Manager: Rosario Delgado-Tardáguila, ENUSA, Spain

CFD analysis of residence time distribution in a decay tank and comparison with experimental measurements

- LAURA MATALONI¹, PATRICIO ALBERTO¹, FELIPE ALBORNOZ¹, FABRICIO BROLLO², FERNANDO SÁNCHEZ², LUIS GUARÍN²

¹INVAP S.E., Argentine Republic ²CNEA, Argentine Republic

Natural convection heat transfer of oxide layer for three-layer configuration varying the aspect ratios

- SU-HYEON KIM, JI-WON BAE, HAE-KYUN PARK, BUM-JIN CHUNG

Kyung Hee University, Korea, Republic of (South Korea)

A new correction factor for curvature effect on condensation heat transfer of air-steam mixture on a vertical cylinder

- YEON-GUN LEE, JI-WOONG YOO, UN-KI KIM, YEONG-JUN JANG

Jeju National University, Korea, Republic of (South Korea)

Transient heat transfer analysis in fuel rods under undesirable conditions up to dryout

- RODOLFO IENNY MARTINS, RENATO RAONI AFFONSO, MARIA DE LOURDES MOREIRA, PAULO BERQUÓ DESAMPAIO

Instituto de Engenharia Nuclear (IEN/CNEN), Brazil

TS05A: NUCLEAR FUEL SCIENCE

Location: NH - Quintral

Manager: Andrea Quaini, CEA, France

Co-Manager: María Angélica Olivera Muñoz, CNEA, Argentine Republic

Implementation of hydrogen solid solubility data and precipitation threshold stresses in the fuel rod code TESPA-ROD

- FELIX BOLDT

GRS GmbH, Germany

Modelling fuel densification under irradiation conditions

- MAURICIO EXEQUIEL CAZADO, ALICIA CATALINA DENIS

CNEA, Argentine Republic

Power ramp control simulations for the npp fuel test facility of ra-10 reactor

- SABRINA BADILLO, MARIA PAULA CHIARVETTO PERALTA, LUIS VAZQUEZ

CNEA, Argentine Republic

Damage characterization of (U,Pu)O₂ under irradiation by Molecular Dynamics simulations

- HECTOR EDUARDO BALBOA LOPEZ¹, LAURENT VAN BRUTZEL¹, ALAIN CHARTIER¹, YANN LE BOUAR²

¹CEA, France ²CNRS-ONERA

TS07A: NUCLEAR SAFETY, SECURITY AND RADIATION PROTECTION

Location: NH - Cándor

Manager: Ignacio Gomez-Garcia-Torano, IYNC, Spain

Co-Manager: Kevin Fernandez Cosials, UPM, Spain

Preliminary investigations of the feasibility of in-vessel melt retention strategies for a small modular reactor concept

- LENA ANDRIOLO, CLÉMENT MERIOT, NIKOLAI BAKOUTA

EDF, France

In-Vessel FLEX strategy analysis for LBLOCA sequences in PWR-Westinghouse

- MARTA RUIZ-ZAPATERO, CESAR QUERAL, RAFAEL BOCANEGRA, GONZALO JIMENEZ, ENEKO ZUGAZAGOITIA

UPM, Spain

Impact of containment failure pressure on hydrogen management in severe accidents

- PFUMBISANI MAKHUVHA, HERMAN BOSMAN

ESKOM - Koeberg Nuclear Power Station, South Africa

Study on accident management during extensive damage

- Yun YU, Wei WEI, Jing LIU, Cong WANG, Xinli YU

China Nuclear Power Engineering Co., Ltd., People's Republic of China

TS08A: NUCLEAR FUEL CYCLE, WASTE MANAGEMENT AND DECOMMISSIONING

Location: PAN - Los Puentes

Manager: Elsa Lemaitre-Xavier, ANDRA, France

Co-Manager: Alejandro Palacio, ENSA, Spain

Micro-calorimetric study on the thermal stability of N,N-dimethylhydroxylamine in HNO₃ Solution

- CAO ZHI, YAN TAIHONG, ZUO CHEN, BIAN XIAOYAN, ZHENG WEIFANG

China Institute of Atomic Energy, People's Republic of China

Ventilation analysis of a cask for spent fuel dry storage

- LUIS MORENO¹, ALEJANDRO LANZA², VICTOR GÓMEZ¹

¹ENSA, Spain ²CTC, Spain

Review on radioactive aerosols from decommissioning of nuclear power plant

- NAKKYU CHAE, SUNGYEOL CHOI

KAIST, Korea, Republic of (South Korea)

Toward the Incorporation of the Systemic Approach for Safety Assessment in the Licensing of Nuclear Facilities

- ANNA LETICIA BARBOSA DE SOUSA, DANIELE DE AZEVEDO BAËTA

¹CNEN, Brazil

Pyrolysis and high performance plasma treatment applied to spent ion exchange resins

- HERNAN ARIEL CASTRO^{1,2}, RAUL ARIEL RODRIGUEZ¹, VITTORIO LUCA¹, HUGO LUIS BIANCHI^{1,2}

¹CNEA, Argentine Republic ²ECyT, UNSAM, Argentine Republic

TS10A: HUMAN RESOURCES, COMMUNICATION AND KNOWLEDGE MANAGEMENT

Location: BEC - Palace

Manager: Nikol Novotna, Súrao, Czech Republic

Co-Manager: Samantha Lynne Neary, SNC-Lavalin, Canada

Knowledge management in nuclear science: creation of the nuclear engineering graduation program at universidade de federal do rio de janeiro (UFRJ)

- TANIA MARA MUGUET-HAISMAN¹, FRANCISCO JOSE DE OLIVEIRA FERREIRA²

¹CNEN, Brazil ²Nuclear Engineering Institute, Brazil

Basic nuclear fusion course. conception, development and maturity

- KEVIN FERNÁNDEZ COSIALS¹, ALFONSO BARBAS ESPA², ÁLVARO GARCÍA BERNAL¹, SERGIO MORATÓ RAFET¹, PABLO FERNÁNDEZ ARIAS¹, RAFAEL SÁNCHEZ FERNÁNDEZ¹, JOSÉ GARCÍA LARUELO¹

¹Jóvenes Nucleares, Spain ²Sociedad Nuclear Española, Spain

Status of nuclear higher education in China

- JUN YANG, XUEYAN ZHANG, CHENGCHENG DENG

Huazhong University of Science and Technology, People's Republic of China

International standardization in the field on nuclear energy an update on ISO Technical Committee N°85 - Nuclear energy, nuclear technologies, and radiological protection's agenda

- JULIETA SAYAN¹, NORMA BOERO¹, CAROLINA POPP^{2,3}

¹CNEA, Argentine Republic ²TERMAR – Terminology Argentinian Group, Argentine Republic

³IRAM - Normalization and Certification Argentinian Institute, Argentine Republic

TS11A: NUCLEAR POLICY, ECONOMICS AND SOCIAL ASPECTS

Location: BEC - Master

Manager: Juana Gervasoni, CNEA, Argentine Republic

Co-Manager: Alina Constantin, Institute for Nuclear Research, Romania

Convention on the physical protection of nuclear material and the 2005 amendment: past, present, and future

- JESSICA BUFFORD

IAEA, Austria

Public perception of place and role of women in nuclear industry

- IRINA MOSSAKOVSKAYA

Fennovoima Oy, Finland

Analysis of the nuclear energy growth in the Argentine electricity mix

- MARIELA YANINA IGLESIA, SOFIA COLACE, VICTORIA MATARAZO, MARÍA FERNANDA MONSERRAT, MARÍA DELIA PARERA

CNEA, Argentine Republic

Manoeuvring through nuclear risks – convergence of global viewpoints and policies

- AISHWARYA SAXENA

The Breakthrough Institute, United States of America

05:45 – 06:45 pm: WSM0. Mentoring programme kick-off session

Manager: James Hardiman, ANSTO, Australia

Location: PAN – Las Américas

Speakers:

- YEONHEE HAH, HEAD OF THE DIVISION OF HUMAN ASPECTS OF NUCLEAR SAFETY, OECD/NEA, FRANCE
- CALLUM THOMAS, CEO, THOMAS THOR ASSOCIATES, UNITED KINGDOM

Tuesday

08:30 – 10:00 am: Mentoring Program

WSM1A. Mentoring Program: Follow-up session 1A

Location: BEC - Zona

Manager: Georgina Graham, ANSTO, Australia

WSM1B. Mentoring Program: Follow-up session 1B

Location: BEC – Master

Manager: James Hardiman, ANSTO, Australia

08:30 – 10:00 am: Technical Tracks

TS02A: ADVANCED NUCLEAR SYSTEMS

Location: NH - Quintral

Manager: Valentina Angelici Avincola, University of Virginia, United States of America

UK ABWR: The UK's Introduction to the Boiling Water Reactor

- JACOB THOMAS HOME, NORMA O'MAHONY
Horizon Nuclear Power, United Kingdom

Preliminary neutronic design of a small modular reactor core

- CLEMENT MERIOT, FLORENT BARJOT
EDF, France

Pre-conceptual design scheme of CIADS subcritical reactor

- HAODONG SHAN, SHIXI WANG
China Institute of Atomic Energy, People's Republic of China

Molten salt reactor thermohydraulics & economics of linear reactor design

- ARUN KUMAR KHUTTAN
Nucleargraduates, United Kingdom

The lead-bismuth coolant chemistry R&D programme in support of the MYRRHA accelerator driven system

- ALEXANDER AERTS, KRIS ROSSEEL, ALESSANDRO MARINO, BORJA GONZALEZ PRIETO, GABRIELE MANFREDI, KRISTOF GLADINEZ
SCK-CEN, Belgium

TS03A: NEUTRONICS, REACTOR PHYSICS AND CORE CRITICALITY

Location: PAN - Los Jardines

Manager: Ana Cintas, CNEA, Argentine Republic

Co-Manager: Ana Ester Bohé, CNEA-Conicet, Argentine Republic

The Kaniadakis Doppler broadening effect relaxing the approximations of Bethe and Plackzec

- GUILHERME GUEDES DE ALMEIDA^{1,3}, DANIEL ARTUR PINHEIRO PALMA², ALESSANDRO DA CRUZ GONÇALVES³

¹CEFET/RJ, Brazil ²CNEN, Brazil

³PEN/COPPE/UFRJ, Brazil

A new and efficient method to measure reactivity in NPP

- XINGKAI HUO
CIAE, People's Republic of China

Neutronic analysis of control rod effect on safety parameters in Tehran research reactor

- MINA TORABI¹, AHMAD LASHKARI², S.FARHAD MASOUDI¹, SOMAYEH BAGHERI²

¹Khajeh Nasir Toosi University of Technology, Iran, Islamic Republic of ²Atomic energy organization of Iran, Iran, Islamic Republic of

TS06A: MATERIALS FOR NUCLEAR INDUSTRY

Location: NH - Amancay

Manager: María Angélica Olivera Muñoz, CNEA, Argentine Republic

Co-Manager: Luis Moreno Pombo, ENSA, Spain

Investigations of the tungsten single crystal electrophysical properties

- EKATERINA S. SOLNTSEVA¹, MIHAIL L. TAUBIN²

¹FSUE SRI SIA "LUCH", Russian Federation

²National Research Nuclear University MEPhI, Russian Federation

Development of a method for quantification of Octadecylamine by HPLC in the presence of other additives

- BETTINA BOSCO ACKERMAN, MAURICIO CHOCRÓN, PAOLA BABAY

CNEA, Argentine Republic

Preparation of UF₄ by chlorination of U₃O₈ and solid state reaction with NaF

- CRISTINA NOEMI GUIBALDO¹, GEORGINA DE MICCO^{1,2}, ANA ESTER BOHÉ^{1,2,3}

¹CNEA, Argentine Republic ²CNEA-CONICET, Argentine Republic ³UNCo Bariloche, Argentine Republic

Republic

Film forming amine application at Embalse nuclear power plant refurbishment outage

- CECILIA BEATRIZ HERRERA, MARIA ISABEL MENDIZABAL

Nucleoeléctrica Argentina S.A., Argentine Republic

Experimental study of the thermophysical properties of boric acid solutions with concentrations typical for emergency modes of WWER

- ANDREI V. MOROZOV, ANNA V. PITYK, SERGEI V. RAGULIN, AZAMAT R. SAHIPGAREEV, ALEKSANDR S. SHLEPKIN

IPPE, Russian Federation

TS07B: NUCLEAR SAFETY, SECURITY AND RADIATION PROTECTION

Location: NH - C ndor

Manager: Ili va Iliz stigui Ariss , CNSN, Cuba

Co-Manager: Ignacio Gomez-Garcia-Torano, IYNC, Spain

Environmental radioactivity monitoring program at Cernavoda NPP and projects of present interest

- SIMONA ZAHAROV, CRISTINA BUCUR
SNN-Cernavoda NPP, Romania

Assessment of radiation doses at the Centre for Applied Radiation Science and Technology

- TEBOGO GILBERT KUPI
North-West University, South Africa

Time series decomposition of the integral of ambient dose equivalent rate as a tool for regulatory supervision of nuclear legacy sites

- KONSTANTIN CHIZHOV¹, MALGORZATA SNEVE²,
NATALIA SHANDALA¹, VICTOR KRYUCHKOV¹

¹SRC-FMBC, Russian Federation ²Norwegian Radiation Protection Authority, Norway

Addressing the challenges of responding to radiological emergencies through creation of the ROSS program

- KAATRIN ABBOTT
Pacific Northwest National Laboratory, United States of America

TS08B: NUCLEAR FUEL CYCLE, WASTE MANAGEMENT AND DECOMMISSIONING

Location: PAN - Los Puentes

Manager: Elsa Lemaitre-Xavier, ANDRA, France

Co-Manager: Alejandro Palacio, ENSA, Spain

Plasma nuclear wastes gasification project at the Nuclear Materials Department

- IGNACIO ANDRES GANA WATKINS, FRANCO
EMMANUEL BENDETTO, MIGUEL OSCAR PRADO
CNEA, Argentine Republic

Detection of cylindrical waste containers. A Guaranteed and robust approach

- SALVADOR PACHECO-GUTIERREZ
University of Manchester, United Kingdom

Microbiological prospection by radioisotopes (U and Th) in the Neuquina Basin, Argentina

- ADALGISA SCOTTI^{1,2}, GUILLERMO ROJAS³, MARCELA SERVANT³, PABLO CAT LFAMO³, ANA ROSA CASTA O GA AN⁴

¹ICES, CNEA, CMFSR, Argentine Republic

²Universidad Nacional de Cuyo, Argentine Republic

³CNEA, Argentine Republic ⁴ICES, CNEA, Argentine Republic

Glasses for nuclear waste immobilization. Effect of Lutetium addition on YAS glass crystallization kinetics.

- DIANA CAROLINA LAGO¹, MARIA BEL N BORTOT³,
MIGUEL OSCAR PRADO^{1,2,3}

¹Bariloche Atomic Center – CNEA, Argentine Republic

²National Council of Scientific and

Technical Research, Argentine Republic ³Balseiro

Institute – National University of Cuyo – CNEA, Argentine Republic

Silicotitanates for Cs-137 adsorption: Synthesis and characterization

- RODRIGO FERNANDO CUR , HUGO LUIS BIANCHI,
VITTORIO LUCA

CNEA, Argentine Republic

TS10B: HUMAN RESOURCES, COMMUNICATION AND KNOWLEDGE MANAGEMENT

Location: BEC - Palace

Manager: Samantha Lynne Neary, SNC-Lavalin, Canada

Co-Manager: Nikol Novotna, Surao, Czech Republic

Implementation of hiring programs for new graduates and students to protect core nuclear knowledge by the Canadian Nuclear Regulator

- KIZA SAUV , SUBA THAMBIRASA, CARLEY CLOUTHIER

CNSC, Canada

IAEA CONNECT: Connecting the network of networks for enhanced communication and training

- ANDRESSA SANTOS JUNGER

IAEA, Austria

Human resources training, qualification and knowledge management in reactor physics analysis

- EDUARDO ANIBAL VILLARINO, IGNACIO MOCHI,
PABLO SARTORIO

INVAP S.E., Argentine Republic

10:00 – 10:30 am: Coffee Break

Location: PAN

10:30 – 12:00 am: PLY1. Plenary session 1: Climate Change - Looking forward

Location: PAN – Las Américas

Manager: Lenka Kollar, NuScale Power, United States of America

Speakers:

- TODD ALLEN, SENIOR VISITING FELLOW, THIRD WAY, UNITED STATES OF AMERICA
- ROBERT COWARD, PRESIDENT, AMERICAN NUCLEAR SOCIETY, UNITED STATES OF AMERICA
- VERÓNICA GAREA, EXECUTIVE DIRECTOR, INVAP S.E., ARGENTINE REPUBLIC
- HUANG GUOFANG, DEPUTY GENERAL MANAGER OF INTERNATIONAL DEPARTMENT, SPIC, PEOPLE'S REPUBLIC OF CHINA
- ALEC MITCHELL, HARMONY PROGRAMME, WORLD NUCLEAR ASSOCIATION, UNITED STATES OF AMERICA
- KIM RUDD, PARLIAMENTARY SECRETARY TO MINISTER OF NATURAL RESOURCES, HOUSE OF COMMONS, CANADA
- DAVID SHROPSHIRE, SECTION HEAD OF PLANNING AND ECONOMIC ANALYSIS SECTION, IAEA, AUSTRIA

12:00 – 01:30 pm: Lunch

Location: BEC – Palace

01:30 – 04:00 pm: Workshops

WS01. Cybersecurity for Civil Nuclear Facilities

Location: BEC – Zona

Manager: Melissa Crawford, Siemens AG, United States of America

Co-manager: Julian Milthorpe, ANSTO, Australia

Speaker:

- NICHOLAS HOWARTH, OPERATIONAL TECHNOLOGY TEAM LEADER FOR THE OPAL RESEARCH REACTOR, ANSTO, AUSTRALIA

WS02. Lessons from Fukushima: how material selection can prevent future accidents

Location: BEC – Master

Manager: Valentina Angelici Avincola, University of Virginia, United States of America

Co-manager: Deepak Dwivedi, Curtin University, Australia

WS03. Advanced decommissioning - robotics in hazardous nuclear environments

Location: NH – Amancay

Manager: Joseph Dabrera, Sellafield Ltd., United Kingdom

Co-manager: Adil Sardardeen, Sellafield Ltd., United Kingdom

Speaker:

- SALVADOR PACHECO-GUTIERREZ, RESEARCH ASSOCIATE, UNIVERSITY OF MANCHESTER, UNITED KINGDOM

WS09. Innovation in Nuclear: Bridging the gap between R&D and Industry

Location: NH – Quintral

Manager: Fidelma Di Lemma, INL, United States of America

Co-manager: Luca Capriotti, INL, United States of America

Speaker:

- ELEONORA LAMBRIDIS, MANAGER, WE LINK INNOVATION ACCELERATOR, WESTINGHOUSE ELECTRIC COMPANY, BELGIUM

WS10. Nuclear fuel cycle game

Location: PAN – Los Jardines

Manager: Kevin F. Cosials, UPM, Spain

Co-Manager: Julieta Sayan, CNEA, Argentine Republic

01:30 – 04:00 pm: Panel sessions

01:30 – 02:45 pm: PNLS2. Has Nuclear bottlenecked at communication?

Location: PAN – Las Américas

Manager: Everlyne Achieng, School of Medicine, Kenya

Co-Manager: Lenka Kollar, NuScale Power, United States of America

Speakers:

- ABDUL KARIM BARRIE, SENIOR ENGINEER, ENTERGY, UNITED STATES OF AMERICA
- ADRIENNE KELBIE, CEO, ONR, UNITED KINGDOM
- HEATHER KLEB, SENIOR PROGRAM MANAGER, BRUCE POWER, CANADA
- LUBOMIR MITEV, STRATEGIC COMMUNICATION SPECIALIST, ENEC, UNITED ARAB EMIRATES

02:45 – 04:00 pm: PNLS4. Young people in nuclear energy - a nuclear movement

Location: PAN – Las Américas

Manager: Riccardo Chiarelli, WANO, United Kingdom

Speakers:

- AHMED SAEED AL SHEHHI, HEAD OF NUCLEAR FUEL QUALITY SURVEILLANCE, ENEC, UNITED ARAB EMIRATES
- RICCARDO CHIARELLI, PROGRAMME MANAGER, WANO, UNITED KINGDOM
- SUZANNE JAWOROWSKI, CHIEF OF STAFF, SENIOR ADVISOR, US D.O.E., OFFICE OF NUCLEAR ENERGY, UNITED STATES OF AMERICA
- CYNTHIA PAPP, MEDICAL PHYSICIST, CNEA, ARGENTINE REPUBLIC

04:00 – 04:30 pm: Coffee Break

Location: BEC & NH & PAN

04:30 – 06:30 pm: PNLS7. Career Development for Women in the Nuclear Field

Location: BEC - Palace

Manager: Cristina Cambiaggio, CNEA, Argentine Republic

Speakers:

- JANICE DUN LEE, DEPUTY DIRECTOR GENERAL EMERITUS, IAEA, AUSTRIA
- JUANA GERVASONI, RESEARCHER, CNEA, ARGENTINE REPUBLIC
- EVA GYANE, EXPORT & IMPORT SPECIALIST, FARN UAE, UNITED ARAB EMIRATES
- SEZIN UZMAN, PROCEDURES AND RECORDS MANAGEMENT DIRECTOR, NAWAH, UNITED ARAB EMIRATES
- GABRIELE VOIGT, DIRECTOR, R.E.M., GERMANY

04:30 – 06:00 pm: PNLS9. Special SMR session

Location: BEC - Master

Manager: Denis Janin, IYNC, France/Germany

Speakers:

- SONG CE, TECHNICAL MANAGER OF INTERNATIONAL MARKETING DEPARTMENT, CNNC/CZEC, PEOPLE'S REPUBLIC OF CHINA
- DARIO DELMASTRO, CAREM ENGINEERING MANAGER, CNEA, ARGENTINE REPUBLIC
- LENKA KOLLAR, DIRECTOR FOR STRATEGY AND EXTERNAL RELATIONS, NUSCALE POWER, UNITED STATES OF AMERICA
- CARLOS LEIPNER, VICE PRESIDENT CANADA & LATIN AMERICA, WESTINGHOUSE, UNITED STATES OF AMERICA/BRAZIL
- DAVID SHROPSHIRE, PLANNING AND ECONOMICS STUDIES SECTION HEAD, IAEA, AUSTRIA

04:30 – 06:00 pm: SE1. Partnerships for the Future: The "NICE Future" Initiative under the Clean Energy Ministerial

Location: BEC - Zona

Speakers:

- FACUNDO DELUCHI, NATIONAL DIRECTOR ON NUCLEAR POLICY, MINISTRY OF ENERGY AND MINING, ARGENTINE REPUBLIC
- SUZANNE JAWOROWSKI, CHIEF OF STAFF, SENIOR ADVISOR, US D.O.E., OFFICE OF NUCLEAR ENERGY, UNITED STATES OF AMERICA
- KIM RUDD, PARLIAMENTARY SECRETARY TO MINISTER OF NATURAL RESOURCES, HOUSE OF COMMONS, CANADA

06.45 – 08.15 pm: PNLS8. Collaboration and Partnerships for Sustainable Development - the case of the IAEA Technical Cooperation Programme

Location: BEC - Palace

Manager: Melina Belinco, CNEA, Argentine Republic

Speakers:

- DANIEL CICERONE, MANAGER OF ENVIRONMENTAL MANAGEMENT, CNEA, ARGENTINE REPUBLIC
- FACUNDO DELUCHI, NATIONAL DIRECTOR ON NUCLEAR POLICY, MINISTRY OF ENERGY AND MINING, ARGENTINE REPUBLIC
- CELINA HORAK, MANAGER OF RADIATION APPLICATIONS AND TECHNOLOGY, CNEA, ARGENTINE REPUBLIC

- FRANCES MARSHALL, MANAGER, RESEARCH REACTOR FUEL CYCLE, IAEA, AUSTRIA
- ADRIANA NARIO MOUAT, DEPARTMENT HEAD, CCHEN, CHILE

06:00 pm – 11:00 pm: IYNC Alumni Session

Location: Playa Bonita

Wednesday

8:30 – 10 am: Technical tracks

TS05B: NUCLEAR FUEL SCIENCE

Location: NH - Quintral

Manager: Fidelma Di Lemma, INL, United States of America

Co-Manager: Norma Luisa Boero, CNEA, Argentine Republic

Postirradiation examination of advance fuel campaign series

- LUCA CAPRIOTTI, JASON M. HARP
INL, United States of America

Ampoule Test Methodology for study of nuclear fuel elements behavior

- EKATERINA S. SOLNTSEVA¹, VALERIY VYBYVANETS¹, VLADISLAV SERICOV¹, EVGENIY KOLESNIKOV¹, KONSTANTINE KOSHEEV², IGOR BELTYUKOV²

¹FSUE SRI SIA "LUCH", Russian Federation ²JSC "Institute of Nuclear Materials", Russian Federation

CF3 Fuel assembly — the advanced PWR fuel assembly with high performance in China

- HUA LI, YUN LI, LIN ZHANG, PING CHEN, TAO LEI, KUN ZHANG, YONGJUN JIAO
NPIC, People's Republic of China

Reactor ageing implications on fuel bundle passage and axial loading

- YOUSEF YACOOB¹, PAUL GILLESPIE¹, JAY SNELL², ERL KOHN¹

¹Kinectrics, Canada ²Stern Laboratories, Canada

CNA-2 Zircaloy-4 Spacer Grids

- MARÍA ANGÉLICA OLIVERA MUÑOZ
CNEA, Argentine Republic

TS06B: MATERIALS FOR NUCLEAR INDUSTRY

Location: NH - Amancay

Manager: Luis Moreno Pombo, ENSA, Spain

Co-Manager: Ana Ester Bohé, CNEA-Conicet, Argentine Republic

Use of irradiated fracture toughness values in nuclear vessel and component design specifications for fitness-for-service analysis using the unified curve method

- **WALEED ISHAQUE, MAYANK SOOD**
Amec Foster Wheeler, Canada

Critical issues and potential benefits of advanced materials as Accident Tolerant Fuel/Cladding

- **VALENTINA ANGELICI AVINCOLA, ELIZABETH OPILA**
University of Virginia, United States of America

Overview of hot-cell facility to study irradiated material at CNEA (relevant)

- **NORA VIVIANA LOUREIRO**
CNEA, Argentine Republic

Recycling Of Zirconium Alloy (Zircaloy) Machining Shavings by Using Var (Vacuum Arc Re-Melting) Furnace and Powder Metallurgy Methods at The South African Nuclear Energy Corporation (Necsa)

- **SAMSON SIBANDE**
NECSA, South Africa

Experimental investigation of the 15-15Ti-AIM1 steel-B4C chemical interaction

- **ANDREA QUAINI, STÉPHANE GOSSÉ**
CEA, France

TS07C: NUCLEAR SAFETY, SECURITY AND RADIATION PROTECTION

Location: NH – Córdor

Manager: Gedion Mbuyiseni Nkosi, NECSA, South Africa

Co-Manager: Ignacio Gómez, IYNC, Spain

A framework for risk assessment of cyber-attack on nuclear power plant

- **JONG WOO PARK, SEUNG JUN LEE**
UNIST, Korea, Republic of (South Korea)

An algorithm for the inclusion of uncertainty in seismic risk quantification

- **LAVINIA RAGANELLI¹, OVIDIU COMAN²**
¹Imperial College London and CRA Risk, United Kingdom ²IAEA, Austria

Risks and management of NORM in South Africa

- **VANESSA MAREE, KEFILWE MOOKODI**
NNR, South Africa

Analysis of Safety Functions across Defense in Depth Levels applied to the design of a fuel irradiation facility

- **IVÁN RAFAEL BRAIDA, MARIA CECILIA GARAY, ROBERTO HILAL, SERGIO MANUEL PAPADAKIS, DAVID QUIROGA, MARIELA GRINBERG**
CNEA, Argentine Republic

A systematic safety assessment methodology for nuclear reactors licensing and design support

- **MARIELA GRINBERG², CECILIA GARAY², CINTIA LÓPEZ², DAVID QUIROGA², MARCELO GIMÉNEZ¹**
¹ CNEA, Argentine Republic ²CNEA, Instituto Balseiro, Argentine Republic

TS09A: FUSION ENERGY

Location: PAN - Los Jardines

Manager: Juana Luisa Gervasoni, CNEA, Argentine Republic

Co-Manager: Iuliia Ipatova, University of Manchester, United Kingdom

Advanced scintillator materials for fast-gated neutron imaging in inertial confinement fusion

- **VERENA GEPPERT-KLEINRATH, MATTHEW S. FREEMAN, AMANDA MADDEN, FRANK MERRILL, JOSHUA TYBO, PETR VOLEGOV, CARL WILDE**
LANL, United States of America

Recent progress on fusion research in INEST

- **QUNYING HUANG**
INEST, People's Republic of China

Nanoscale structure damage in irradiated tungsten-tantalum alloys for nuclear fusion reactors

- **IULIA IPATOVA**
University of Manchester, United Kingdom

TS10C: HUMAN RESOURCES, COMMUNICATION AND KNOWLEDGE MANAGEMENT

Location: BEC - Palace

Manager: Monica Sbaffoni, WIN Argentina, Argentine Republic

Co-Manager: Nikol Novotna, Surao, Czech Republic

Perceptions of Indonesian students abroad against nuclear energy as one of the power source in Indonesia

- **DWI RAHAYU**
NRNU MEPhI, Russian Federation

One Future. One Chance

- PILAR LILIANA MARINELLI, ROMINA CUEVAS, MARCELA CARRIZO

I.S.F.T. N°195, Argentine Republic

Technical communication during nuclear and radiological emergencies with the tools to support international assessment and prognosis

- MARGARITA TZIVAKI, JOSEPH CHAPUT, EDWARD J. WALLER

University of Ontario Institute of Technology, Canada

Communicating atoms for peace

- TARIANA BROCARDO MACHADO

Universidade de São Paulo, Brazil

International mentoring and professional development training for young scientists using online technologies.

- MARIELA ADELAIDA PORRAS-CHAVERRI¹, IVÁN MIGUEL ROSADO-MÉNDEZ², DIANE ALVAREZ³, LAURA PADILLA⁴

¹University of Costa Rica, Costa Rica ²Universidad Nacional Autónoma de México, México. ³Miami Cancer Institute, Baptist Hospital of Miami, United States of America ⁴Virginia Commonwealth University, United States of America

TS12A: NUCLEAR TECHNOLOGY IN MEDICINE, BIOLOGY AND NON-POWER SECTORS

Location: BEC - Master

Manager: Georgina Katie Graham, ANSTO, Australia

Co-Manager: Daria Piatnitskaia, Atomproekt, Russian Federation

Comparison of absorbed dose to water and absorbed dose to medium (blood and bone) for Variain 10 MV Accelerator

- PEIMAN REZAEIAN, SEDIGHE KASHIAN

NSTRI, Iran, Islamic Republic of

Impact of 6 Gy γ -radiation on mesenchymal stem cell therapy for pancreatic damage induced by alloxan in rats

- SOHEIR SAAD MOHAMED ABDEL MOETY KORRAA¹, MONDA MOHAMED MAHER¹, NAGWA H. A. HASSAN², NAGUI HASSAN FARES²

¹National Center for Radiation Research and Technology, EAEA, Egypt ²Faculty of Science, Ain Shams University, Egypt

Biocompatible polymers modification by ionizing radiation

- YASKO KODAMA¹, MURAT BARSBAY², OLGUN GUVEN²

¹IPEN-CNEN/SP, Brazil ²Hacettepe University, Turkey

08:30 – 10:00 am: WIN General Assembly

Location: PAN – Las Américas

10:00 – 10:30 am: Coffee Break

Location: BEC & NH & PAN

10:30 – 01:00 pm: Workshops

WS04. Nuclear detectives

Location: BEC - Zona

Manager: Nadya Rauff-Nisthar, JRC Karlsruhe, Germany

Co-manager: Jerry Davydov, IAEA, Austria

Speaker:

- ANDREI APOSTOL, NUCLEAR FORENSICS SCIENTIST, "HORIA HULUBEI" NATIONAL INSTITUTE FOR R&D IN PHYSICS AND NUCLEAR ENGINEERING, ROMANIA

WS05. Developing a Severe Accident progression tree

Location: NH - Amancay

Manager: Lavinia Raganelli, Imperial College of London, United Kingdom

Co-manager: Jacob Home, Lancaster University, United Kingdom

Speaker:

- ROSARIO DELGADO, ENGINEER, ENUSA, SPAIN

WS08. The competences of the future for the next youth nuclear generation

Location: PAN – Los Jardines

Manager: Audrey Navon-Gross, I2EN, France

Speaker: SHERIFFAH NOOR KHAMSEAH AL-IDID, INNOVATION AND NUCLEAR ADVOCATE, MALAYSIA

WS11. Strategic Communication in a Nuclear Crisis

Location: NH - Cándor

Manager: Kate Jennings, ANSTO, Australia

Co-manager: Julia Garside, ANSTO, Australia

Speakers:

- YEONHEE HAH, HEAD OF THE DIVISION OF HUMAN ASPECTS OF NUCLEAR SAFETY, OECD/NEA, FRANCE

WS14. Nuclear knowledge management

Location: NH – Quintral

Manager: Tania Mara Muguet-Haisman, CNEN, Brazil

Speakers:

- ROBERTO MAYER, PROFESSOR, CNEA, ARGENTINE REPUBLIC

- MONICA SBAFFONI, SENIOR EXPERT IN NUCLEAR KNOWLEDGE MANAGEMENT, WIN-ARGENTINA, ARGENTINE REPUBLIC

10:30 – 01:30 pm: Panel Sessions

10:30 – 12:00 am: PNLS6. The future of Nuclear: Innovations for competitiveness and government involvement

Location: BEC - Master

Manager: Fidelma Di Lemma, INL, United States of America

Speakers:

- TODD ALLEN, SENIOR VISITING FELLOW, THIRD WAY, UNITED STATES OF AMERICA
- XIAHONG CHENG, ASSOCIATE VICE PRESIDENT, SNPTC, PEOPLE'S REPUBLIC OF CHINA
- ELEONORA LAMBRIDIS, MANAGER, WELINK INNOVATION ACCELERATOR, WESTINGHOUSE ELECTRIC COMPANY, BELGIUM
- MAGNUS MORI, MANAGER IN THE SALES AND MARKETING DEPARTMENT, URENCO, UNITED KINGDOM

12:00 – 13:30 pm: PNLS3. Neutrons for science, research and development

Location: BEC - Master

Manager: Ana Cintas, CNEA, Argentine Republic

Speakers:

- CHRISTIANE ALBA – SIMIONESCO, RESEARCH DIRECTOR, CNRS, FRANCE
- FLORENCIA CANTARGI, RESEARCH SCIENTIST, NEUTRONS PHYSICS DEPARTMENT, CNEA, ARGENTINE REPUBLIC
- JOHN M. CARPENTER, EMERITUS SCIENTIST, ANL, UNITED STATES OF AMERICA
- DARIO SANZ, HEAD OF THE NUCLEAR MEDICINE AND RADIOTHERAPY CENTER, CNEA, ARGENTINE REPUBLIC

01:00 – 02:30 pm: Lunch

Location: BEC-Palace

02:30 – 04:00 pm: PLY2. Plenary Session 2. New Technologies, New build and Major Refurbishments

Location: PAN – Las Américas

Manager: Nathan Paterson, Rolls-Royce, United Kingdom

Speakers:

- CARLA CARMICHAEL, VICE-PRESIDENT, OPG, CANADA
- IVAN DYBOV, PRESIDENT, ROSATOM LA, RUSSIAN FEDERATION
- JOSE EMETERIO GUTIERREZ, CEO, WESTINGHOUSE, UNITED STATES OF AMERICA
- FREDERIC LELIEVRE, SENIOR EXECUTIVE VICE-PRESIDENT, FRAMATOME, FRANCE

04:00 – 04:30 pm: Coffee Break

Location: PAN

04:30 – 06:00 pm: Technical Tracks

TS03B: NEUTRONICS, REACTOR PHYSICS AND CORE CRITICALITY

Location: PAN - Los Jardines

Manager: Xingkai Huo, CIAE, People's Republic of China

Co-Manager: Ana Cintas, CNEA, Argentine Republic

Thorium fuel cycle models in DIONISIO

- MARTIN EMILIO GONZALEZ, ALEJANDRO SOBA, ALICIA DENIS

CNEA, Argentine Republic

Preliminary design of a compact nuclear reactor core

- JUAN FRANCO CANEPA, EDUARDO VILLARINO, DANIEL HERGENREDER

INVAP S.E., Argentine Republic

Toward an international spectrum adjustment intercomparison

- THOMAS JOSEPH QUIRK

SNL, United States of America

Neutronic design of customized research reactors

- DIEGO ERNESTO FERRARO, EDUARDO ANIBAL VILLARINO

INVAP S.E., Argentine Republic

TS07D: NUCLEAR SAFETY, SECURITY AND RADIATION PROTECTION

Location: NH - Córdor

Manager: Cesar Queral, UPM, Spain

Co-Manager: Ilieva Ilizástigui Arissó, CNSN, Cuba

Passive heat removal system via steam generators reliability dependency on steam generator mass balance

- JULIA KATARIINA VIRTANEN

Fennovoima Oy, Finland

CAREM25 passive safety systems reliability assessment based on design and operational parameters uncertainties

- FEDERICO MEZIO, MARCELO GIMENEZ, PABLO ZANOCCO, CRISTIAN ARAMAYO

CNEA, Argentine Republic

Analysis and evaluation of the RA-10 research reactor confinement effectiveness for a beyond design basis event

- CRISTÓBAL MULLEADY, MARCELO CAPUTO, PABLO RAMIREZ
CNEA, Argentine Republic

Simulation of nuclear fuel behavior in accident conditions with the DIONISIO code

- MARTIN LEMES, ALICIA DENIS, ALEJANDRO SOBA
CNEA, Argentine Republic

TS07F: NUCLEAR SAFETY, SECURITY AND RADIATION PROTECTION

Location: NH - Amancay

Manager: Kevin Fernandez Cosials, UPM, Spain

Co-Manager: Marek Vencel, Súrao, Czech Republic

Monte-Carlo simulation and experimental determination of the collimation effect on the resolution of the Algerian neutron diffractometer

- RIAHI FATMA, HACHOUF MOHAMED, SALHI MHAMED
NRCB, Algeria

Neutron and photon streaming and dose attenuation analysis in common shielding materials

- ALICE CUNHA DA SILVA¹, JESSE J KLINGENSMITH²
¹Westinghouse Electric do Brasil, Brazil
²Westinghouse Electric Company, United States of America

Time-scale characterization of neutron and gamma signals resulting from nonnegative matrix and tensor factorization algorithms of stilbene organic scintillator's outputs

- HANANE ARAHMANE¹, EL-MEHDY HAMZAOUI², RAJAA CHERKAOU EL MOURSALI¹

¹Mohammed V University, Morocco, ²CNESTEN, Morocco

Overview of the CESAR thermalhydraulic module of ASTEC V2.1 and selected validation studies

- IGNACIO GOMEZ-GARCIA-TORANO, LAURENT LABORDE, JULIE-ANNE ZAMBAUX
IRSN, France

TS12B: NUCLEAR TECHNOLOGY IN MEDICINE, BIOLOGY AND NON-POWER SECTORS

Location: BEC- Master

Manager: Yousef Yacoob, Kinectrics, Canada

Co-Manager: Nick Howarth, ANSTO, Australia

Policies and nuclear medicine in plurinational state of Bolivia

- LUZ NATALY REGUERIN ACARAPI
Universidad Nacional de San Martín, Universidad Torcuato Di Tella, Bolivia

Brazilian Women in Nuclear develop new materials for the food industry

- NELIDA LUCIA DEL MASTRO, BRUNA TEIXEIRA, VANESSA UEHARA, ALINE BARROSO
IPEN-CNEN/SP, Brazil

The development of radiotherapy technology in Kenya

- EVERLYNE ACHIENG
AYGN, KYGN

TS13A: YGN & WIN BEST PRACTICES

Location: NH - Quintral

Manager: Cristian Ariel Vega, AYNG, Argentine Republic

Co-Manager: Anouk Ter Brugge, URENCO, Netherlands

Jóvenes Nucleares digital disclosure strategy

- PABLO GARCIA GARCIA, JOSE GARCIA LARUELO, RAFAEL SANCHEZ FERNANDEZ
Jóvenes Nucleares, Spain

The first steps of Youth Nuclear Groups in Argentine Republic

- IGNACIO SEBASTIAN LUPPI BERLANGA
Hospital Español de Buenos Aires, Argentine Republic

04:30 – 06:00 pm: SE2. UAE Youth Circle : "Youth: The Future of Nuclear »

Location: BEC - Zona

Thursday

08:30 – 10:00 am: Mentoring program

WSM2A. Mentoring Program – Follow-up session 2

Manager: Georgina Graham, ANSTO, Australia

Location: BEC - Zona

WSM2B. Mentoring Program – Follow-up session 2

Manager: James Hardiman, ANSTO, Australia

Location: BEC - Master

08:30 – 10:00 am: Technical Tracks

TS01B: NPPs OPERATION, MAINTENANCE AND DESIGN MODIFICATION

Location: PAN - Los Jardines

Manager: Julian Robert Milthorpe, ANSTO, Australia

CANDU Containment Boundary Isolation Experience and Design Recommendations

- WALEED ISHAQUE¹, LIAM WICKS², SOOD MAYANK¹

¹Amec Foster Wheeler, Canada ²Bruce Power, Canada

Test and thermal hydraulic calculation of the makeup and boron control deaerator (DA 65/20), made for Leningrad NPP-2

- LIDIYA LITVINENKO, VLADIMIR BEZLEPKIN, ANDREY MITRYUKHIN, ANGELA ANOSHINA, MICHAEL USTINOV

ASE Group JSC "ATOMPROEKT", Russian Federation

Surveillance of fuel and control rod integrity by an off-gas online monitoring system

- HELENA LONER

Kernkraftwerk Leibstadt AG, Switzerland

Embalse steam generator replacement project: main challenges and progress update of the implementation phase

- PABLO JAVIER LUNA¹, RICARDO SAINZ¹, JAMES JESKO², STEFAN BOSTELAAR³

¹Nucleoeléctrica Argentina SA, Argentine Republic

²Westinghouse Electric Company, PCI Energy Services, United States of America ³Mammoet Europe B.V., Netherlands

Embalse NPP reactor fuel channel replacement: update of progress

- RICARDO SAINZ¹, GUSTAVO DIAZ¹, T. FREEMAN², P. SALVETTI¹

¹Nucleoeléctrica Argentina SA, Argentine Republic

²SNC-Lavalin, Canada

TS02B: ADVANCED NUCLEAR SYSTEMS

Location: NH - Quintral

Manager: Josef Svoboda, JINR, Russian Federation

Co-Manager: Valentina Angelici Avincola, University of Virginia, United States of America

Formation and transport of lead oxide in a non-isothermal liquid lead-bismuth eutectic loop-type system

- KRISTOF GLADINEZ^{1,2}, KRIS ROSSEEL¹, JUN LIM¹, ALESSANDRO MARINO¹, GERALDINE HEYNDERICKX², ALEXANDER AERTS¹

¹SCK-CEN, Belgium ²UGent, Belgium

Measurements of adhesion force between a single silver particle interacting with Hastelloy X

- NAPHTALI MALESSELA MOKGALAPA

NECSA, South Africa

Fuel management strategy of ACP100

- LIANGZI WANG^{1,2}, HAITAO JU^{1,2}, DONG QIN^{1,2}, LIANJIE WANG^{1,2}, YINGRUI YU^{1,2}, QING LI^{1,2}

¹Science and Technology on Reactor System Design Technology Laboratory, People's Republic of China ²NPIC, People's Republic of China

MELCOR and GOTHIC comparison of AP1000 Passive Containment Cooling System

- CARLOS VÁZQUEZ-RODRÍGUEZ, SAMANTA ESTÉVEZ, GONZALO JIMÉNEZ, CESAR QUERAL, ZURIÑE GOÑI

UPM, Spain

TS04B: THERMAL HYDRAULICS

Location: NH - Amancay

Manager: Minhee Kim, Korea Hydro & Nuclear Power co., South Korea

Co-Manager: Lavinia Raganelli, Imperial College London, United Kingdom

Validation of the CESAR friction models of the ASTECV21 code based on Moby Dick experiments

- IGNACIO GOMEZ-GARCIA-TORANO, LAURENT LABORDE

IRSN, France

On the effect of uncertainties in the HTC for the transition flow regime in a rectangular channel when using RELAP5

- JORGE LUPIANO CONTRERAS, ALICIA DOVAL, PATRICIO ANDRES ALBERTO

INVAP S.E., Argentine Republic

DNS of the laminar-turbulent transition for the RA6 nuclear reactor

- WILLIAM ISMAEL MACHACA ABREGU^{1,2}, FEDERICO EDUARDO TERUEL^{1,2,3}, ENZO ALBERTO DARI^{1,2,3}

¹CNEA, Argentine Republic ²CNEA, Instituto Balseiro, Argentine Republic ³CONICET, Argentine Republic

Thermal-hydraulic design in the transition flow regime

- JORGELINA LUPIANO CONTRERAS, ALICIA DOVAL, PATRICIO ANDRES ALBERTO
INVAP S.E., Argentine Republic

Sensitivity analysis of the thermal diffusion coefficient effect on the departure from nucleate boiling ratio

- ROSARIO DELGADO-TARDAGUILA, MARISOL CORISCO, ANTONIO ESPEJO, DANIEL NAVARRO, JAVIER RIVEROLA
ENUSA, Spain

TS07E: NUCLEAR SAFETY, SECURITY AND RADIATION PROTECTION

Location: NH - C ndor

Manager: Kevin Fernandez Cosials, UPM, Spain
Co-Manager: Gedion Mbuyiseni Nkosi, NECSA, South Africa

Parametrical study and experimental validation of iodine plate out on ventilation pipes of a fission radioisotope production plant

- ALEXIS MAITRE¹, HERNAN MEIER¹, FABIANA MOLLI¹, CECILIA MANEIRO¹, RICARDO REY¹, SAFWAT SALAMA²

¹INVAP S.E., Argentine Republic ²Atomic Energy Authority, Arab Republic of Egypt

Radioprotection strategies during fission radioisotope production plants design

- ALEXIS MAITRE, VICTORIA WILKINSON, HERNAN MEIER, FABIANA MOLLI, CECILIA MANEIRO
INVAP S.E., Argentine Republic

Robustness assessment in SSNTD method validation: indoor radon quality control

- DANILA CARRIJO DA SILVA DIAS¹, NIVALDO CARLOS DA SILVA¹, RODRIGO LEANDRO BONIF CIO¹, MARCOS VIN CIUS RODRIGUES²

¹Brazilian National Commission for Nuclear Energy, Brazil ²Universidade Federal de Alfenas - UNIFAL - Brazil

Strengthening occupational radiation protection in Argentina

- NANCY PUERTA YEPES, MARINA DI GIORGIO, SEBASTI N SEBASTI N, DORA VIDAL, LAURA CASTRO, FABIO L PEZ, ANAL A CANOBA
ARN, Argentine Republic

TS11B: NUCLEAR POLICY, ECONOMICS AND SOCIAL ASPECTS

Location: BEC - Palace

Manager: Jessica Lovering, The Breakthrough Institute, United States of America
Co-Manager: Julieta Sayan, CNEA, Argentine Republic

The relevance of indigenous rights for the Argentine nuclear industry

- JUAN SONODA
Beretta Godoy, Argentine Republic

Advances in the study intended for the Application of the INPRO Methodology in the area of Infrastructure (Public Acceptance in the era of telecommunications) for the case of Mexico.

- RAQUEL HEREDIA¹, FEDERICO PUENTE²
¹ITESM CSF, Mexico ²ININ, Mexico

From Obama to Trump: Analysis of U.S. Nuclear Policy Changes Under the New Administration

- JILLIAN MALONEY^{1,2}, SARAH ZIMSKIND^{1,2}
¹PNNL, United States of America ²NNSA, United States of America

From new-built to phase-out within a decade: how a country loses faith into its nuclear industry

- PETROS PAPADOPOULOS
Young Generation of the Swiss Nuclear Society, Switzerland

The Importance of nuclear power for sustainable development

- SARAH LESLEY WILD
Rolls-Royce, United Kingdom

10:00 – 10:30 am: Coffee break

Location: PAN

10:30 – 12:00 am: PLY3. Plenary Session 3. Radioactive Waste and Decommissioning: Yesterday's Legacy, Tomorrow's Opportunity

Location: PAN – Las Am ricas
Manager: Kate Jennings, ANSTO, Australia
Co-Manager: James Hardiman, ANSTO, Australia
Speakers

- CON LYRAS, IAEA DECOMMISSIONING NETWORK CHAIR, ANSTO ENGINEER, AUSTRALIA
- ELVIRA MASET, MANAGER, CNEA, ARGENTINE REPUBLIC
- CHRISTOPHE XERRI, DIRECTOR, DIVISION OF NUCLEAR FUEL CYCLE AND WASTE, IAEA, AUSTRIA

12:00 – 01:30 pm: Lunch

Location: BEC Palace

01:30 – 03:30 pm: Workshops

WS06. Small Modular Reactors: Understanding the technology and global development scenario with an opportunity to “operate SMR on your laptop”

Location: PAN – Los Jardines

Manager: Lenka Kollar, NuScale Power, United States of America

Speaker:

- DARIO DELMASTRO, CAREM ENGINEERING MANAGER, CNEA, ARGENTINE REPUBLIC

WS07. DIY Energy Roadmaps

Location: PAN – Los Puentes

Manager: Jessica Lovering, The Breakthrough Institute, United States of America

WS12. Nuclear Medicine – A future of hope

Location: NH - Amancay

Manager: Humberto Romano, CNEA, Argentine Republic

Co-Managers:

Georgina Graham, ANSTO, Australia

Dario Sanz, CNEA, Argentine Republic

Virginia Venier, INTECNUS-CNEA, Argentine Republic

Speakers:

- GERMAN ARENAS, CYCLOTRON MEDICAL PHYSICIST, FUESMEN, ARGENTINE REPUBLIC
- AARON FLETT, PRODUCTION MANAGER, MO-99 PRODUCTION FACILITY, ANSTO, AUSTRALIA
- TANIA TELFORD, NUCLEAR MEDICINE MEDICAL PHYSICIST, INTECNUS-CNEA, ARGENTINE REPUBLIC

WS13. Alternative use of nuclear energy

Location: NH – Quintral

Manager: Anouk Ter Brugge, URENCO, Belgium

Speakers:

- NELIDA L. DEL MASTRO, LEADER OF RESEARCH GROUP ON BIOLOGICAL RADIATION EFFECTS, FAC Cs EXACTAS, BRASIL
- ALEXANDER TSIBULYA, IYNC Co-FOUNDER, RUSSIAN FEDERATION

WS15. Gender Gap in STEM fields

Location: NH – Cóndor

Manager: Verónica Garea, INVAP S.E., Argentine Republic

Co-Manager: Ana Bohe, CNEA-Conicet, Argentine Republic

Speakers:

- SHERIFFAH NOOR KHAMSEAH AL-IDID, INNOVATION AND NUCLEAR ADVOCATE, MALAYSIA
- CARLA NOTARI, DEAN OF THE DAN BENINSON INSTITUTE / CNEA, ARGENTINE REPUBLIC

01:30 – 03:30 pm: Panel Sessions

01:30 – 02:30 pm: PNLS1. Robotics and Automation – Technology Innovations in Nuclear

Location: BEC – Master

Manager: Kate Jennings, ANSTO, Australia

Speakers:

- MICHAEL KRAUSE, ACCOUNT DIRECTOR, CANDU 6 SERVICES, SCN-LAVALIN, CANADA
- SOL PEDRE, GROUP LEADER, CNEA, ARGENTINE REPUBLIC

02:30 – 03:30 pm: PNLS5. Emergency Preparedness & Response

Location: BEC - Master

Manager: Andrew Bramnik, IAEA, Austria

Speakers:

- KAZUSHI FUJIKAWA, UNIT CHIEF, NUCLEAR DISASTER MANAGEMENT BUREAU, CABINET OFFICE, GOVERNMENT OF JAPAN, JAPAN
- ANN HEINRICH, DIRECTOR, OFFICE OF NUCLEAR INCIDENT POLICY AND COOPERATION, NATIONAL NUCLEAR SECURITY ADMINISTRATION, US D.O.E., UNITED STATES OF AMERICA
- SYLVIE RICHARD, NUCLEAR GENERATION DIVISION DEPUTY DIRECTOR, ELECTRICITE DE FRANCE, FRANCE
- IVANA SADAŃIOWSKI, UNIT CHIEF, SUBGERENCIA INTERVENCION EN EMERGENCIAS RADIOLOGICAS Y NUCLEARES, AUTORIDAD REGULATORIA NUCLEAR, ARGENTINE REPUBLIC

02:30 – 03:30 pm: IYN Contest Finale

Location: PAN – Las Américas

Manager: Fidelma Di Lemma, INL, United States of America

Jury:

- EVERLYNE ACHIENG, STUDENT, SCHOOL OF MEDICINE, KENYA
- XIAHONG CHENG, ASSOCIATE VICE PRESIDENT, SNPTC, PEOPLE'S REPUBLIC OF CHINA
- IVAN DYBOV, PRESIDENT, ROSATOM LA, RUSSIAN FEDERATION
- ELEONORA LAMBRIDIS, MANAGER, WELINK INNOVATION ACCELERATOR, WESTINGHOUSE ELECTRIC COMPANY, BELGIUM
- AUGUST FERN, FOUNDER, IYNC, UNITED STATES OF AMERICA

03:30 – 04:00 pm: Coffee Break

Location: PAN

04:00 – 05:00 pm: Poster session

Location: PAN – Bridge

The Uncertainty Study of Power Distribution of NESTOR

- HONGKUAN LIAO, QING LI, YINGRUI YU, YUYING HU
SCIENCE AND TECHNOLOGY ON REACTOR SYSTEM
DESIGN TECHNOLOGY LABORATORY, NPIC, CHINA,
PEOPLE'S REPUBLIC OF

Uncertainty analysis using C ndor Citvap calculation codes

- PABLO JAVIER OCTAVIANO, EDUARDO VILLARINO,
DIEGO FERRARO
INVAP S.E., ARGENTINE REPUBLIC

Research of the process of producing the Tc-99M isotope at the IRT-T reactor

- IURII NIKOLAEV¹, PAVEL KONOVALOV², IURII
CHERTKOV³

¹RUSSIAN FEDERAL NUCLEAR CENTER, RUSSIAN
FEDERATION ²FSUE «ATOMFLOT», RUSSIAN
FEDERATION ³TOMSK POLYTECHNIC
UNIVERSITY, RUSSIAN FEDERATION

Simulation of HTR-10 Anti-Compton HPGe Gamma-ray Spectrometer with Geant4

- CUI MAO^{1,2}, LI-GUO ZHANG², YI-BAO LIU¹

¹ECUT/Tsinghua University, China, People's
Republic ²Institute of Nuclear and New Energy
Technology, Tsinghua University, China

A Review of History Parameters in PWR core analysis

- ESTEBAN SZAMES, ANTONIO GALIA, DANIELE
TOMATIS

CEA, UNIVERSITE PARIS-SACLAY, FRANCE

The solution of the point kinetic equations using exponential diagonally implicit Runge Kutta

- YUN CAI, ZHIZHU ZHANG, QING LI, XINGJIE PENG,
ZHUMI JIANG, RUI GUO

NPIC, PEOPLE'S REPUBLIC OF CHINA

Application of the neutron noise Technique for calibration of a RA-4 nuclear reactor control rod

- JOSE ANDRES ORSO^{1,2}, PABLO ARMANDO
BELLINO¹, ALEJANDRA BENHAIM¹

¹CNEA, ARGENTINE REPUBLIC ²UNIVERSIDAD NACIONAL
DE ROSARIO, ARGENTINE REPUBLIC

Experimental Studies on Critical Heat Flux in Tight Lattice Rod Bundles

- XU MEI LANG

NPIC, PEOPLE'S REPUBLIC OF CHINA

Validation of Thermal Hydraulic Codes

- FEDERICO RUBEN BELLINO, LAURA MATALONI,
PATRICIO ALBERTO
INVAP S.E., ARGENTINE REPUBLIC

Characterization of Mineralogy on Graphite Crucible Infiltrated by Molten Uranium

- NCUTHUKAZI ZIYANDA FOTOYI
NECSA, SOUTH AFRICA

Surface adsorption of Zn and Co on Magnetite and Ions Incorporation to the Crystal Structure

- TAMARA ANTONELLA ALTIERI, LUIS ALBERTO
GARCIA RODENAS, MAURICIO CHOCRON

CNEA, ARGENTINE REPUBLIC

Neutronic Parameters and CPS (Control and Protection System) Worth Calculation of Thermal Research Reactor Using MCNPX code

- HADI SHAMORADIFAR¹, BEHZAD TEIMURI², PARVIZ
PARVARESH¹

¹PAYAME NOOR UNIVERSITY, IRAN, ISLAMIC REPUBLIC OF

²NUCLEAR SCIENCE AND TECHNOLOGY RESEARCH
INSTITUTE, ATOMIC ENERGY ORGANIZATION OF IRAN,
IRAN, ISLAMIC REPUBLIC OF

The Protection of Safety Important Item against Turbine Missile

- XUESHUANG ZHANG, CHONG LI, LI FAN, LIYOU
ZHANG, HUI LI

CHINA NUCLEAR POWER ENGINEERING CO., LTD.,
PEOPLE'S REPUBLIC OF CHINA

Measurements of Radon-222 in localized Areas of Masaya Volcano, Nicaragua using E-PERM detectors

- JOSELIN JUDITH MEZA MARTINEZ, NORMA
ALEJANDRA ROAS ZUNIGA

UNAN, NICARAGUA

PRA Insights used for Station Blackout Mitigation in Barakah Nuclear Power Plant

- ABDULLAH AL YAFEI, YU SHEN, MOHAMED SABAAN

NAWAH, UNITED ARAB EMIRATES

Implementation of barriers for safety VMAT and IMRT treatments: an analysis based on risk matrix

- EMMILY SANTOS SANDRINI¹, HELIO AUGUSTO
SALMON JR²

¹AMERICAS CENTRO DE ONCOLOGIA INTEGRADO, BRAZIL

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Evaluation of Shielding Adequacy of some X-ray Facilities in Nigeria

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Radiological Risk in Transport of Radioactive Material

- ZAYDA HAYDE  AMADOR BALBONA¹, ANTONIO
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TECHNOLOGIES AND SCIENCES, CUBA ³NATIONAL

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Analysis of a Loss of Offsite Power Event for the RA-10 Reactor

- LUCAS EZEQUIEL CLARAMONTE, FABRICIO ENZO BERETTA, SERGIO MANUEL PAPADAKIS
CNEA, ARGENTINE REPUBLIC

A Study for the Supporting DB of the Level 3 PSA Code

- SUNHEE PARK¹, SEOK-JUNG HAN¹
¹KAERI, KOREA, REPUBLIC OF (SOUTH KOREA)

A Methodology for Cybersecurity Management Assisted by Free and Open Source Software

- LUCAS OSVALDO NOGUERON
CNEA, ARGENTINE REPUBLIC

Sintering behavior of Uranium octoxide matrix for MTR spent fuel immobilization treatments

- ARIEL ALEJANDRO CHAVEZ, ABEL MAGNONE, IGNACIO ANDRES GANA WATKINS, DIEGO OSVALDO RUSSO
CNEA, ARGENTINE REPUBLIC

Modeling water flow and solute transport in unsaturated zone in the framework of the NSRAWD Project

- ALINA CONSTANTIN
INSTITUTE FOR NUCLEAR RESEARCH, ROMANIA

Complete degradation of erythrosine by gamma irradiation

- AMIRA ZAOUAK, AHLEM NOOMEN, HAIKEL JELASSI
NATIONAL CENTER FOR NUCLEAR SCIENCES AND TECHNOLOGIES, TUNISIA

Communicating Radon in Early Childhood Education Centers in Poços de Caldas, MG – Brazil.

- DANILA CARRIJO DA SILVA DIAS¹, NIVALDO CARLOS DA SILVA¹, MARCOS VINICIUS RODRIGUES², RODRIGO LEANDRO BONIFACIO¹
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Development of F(ab')₂ Fragment Monoclonal Antibody 14F7hT for Radiodiagnostics of Tumor Positives to GM3(Neu5Gc) Ganglioside.

- BARBARA EVELYN GARCIA MORENO
CENTER OF ISOTOPES, CUBA

Nuclear Power Communication for Residents Surrounding 5 Nuclear Power Plants in Korea

- EUNOK HAN, SEUNGKOO LEE, YOONSEOK CHOI
KOREA ACADEMY OF NUCLEAR SAFETY, KOREA, REPUBLIC OF (SOUTH KOREA)

Recommendation for Incident Database Management of Korea

- MINJI PARK¹, SUHYEON KIM²
¹SEOUL NATIONAL UNIVERSITY, KOREA, REPUBLIC OF (SOUTH KOREA) ²KYUNG HEE UNIVERSITY, KOREA, REPUBLIC OF (SOUTH KOREA)

Evaluation Method of Fatigue in Nuclear Power Design

- QINGNA ZENG, DONGHUI WANG
NPIC, PEOPLE'S REPUBLIC OF CHINA

Nuclear Desalination Activities in Argentina

- MARIA CECILIA CONTI, MARTIN IRIGARAY, MAURICIO CHOCRON
CNEA, ARGENTINE REPUBLIC

The Design and Engineering Management of Substituted Boride as the Shield Block Materials of Reactor Pressure Vessel

- YONGQING GUAN, WENBIN GONG, ZHONGMING JIANG, SHUYIN ZHA, CHAOSHANG ZUO
STATE NUCLEAR POWER ENGINEERING COMPANY, PEOPLE'S REPUBLIC OF CHINA

Irradiator System for Manganese Sulphate Bath Efficiency Measurements Using a Plutonium-Beryllium Neutron Source

- FELLIPE SOUZA DA SILVA¹, MARCELO MARQUES MARTINS¹, SANDRO PASSOS LEITES², SIMONE DA SILVA FERNANDES¹, EVALDO SIMÕES DA FONSECA¹, KARLA CRISTINA DE SOUZA PATRÃO¹, WALSAN WAGNER PEREIRA¹

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Challenges in Nuclear Communication and the Motivations Adopted by the Women in Nuclear in Brazil

- TANIA MARA MUGUET-HAISMAN¹, DANILA CARRIJO DA SILVA DIAS²

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Establishment of Organizational Knowledge Sharing Culture. From "Knowledge is a Power" Paradigm to Knowledge Sharing Culture

- Aysel Hasanova
STATE AGENCY ON NUCLEAR AND RADIOLOGICAL ACTIVITY REGULATION, AZERBAIJAN

Production of Sn-117m with a High Specific Activity by Recoil

- KEFILWE THATO THOANE, JAN RIJN ZEEVAART, DAVID JANSEN
NECSA, SOUTH AFRICA

Study on a New Way of Containment Spray System Test

- SHI-JIE XIE, CHUANXIN PENG, TIANZHOU XIE, YONG LI
NPIC, PEOPLE'S REPUBLIC OF CHINA

Use of [18F] FLT Positron Emission Tomography to Assess the Tumor Evolution in Mouse 4T1 Breast Tumor Model

- BRIGIDA GOMES DE ALMEIDA SCHIRMER, MARINA RIOS ARAUJO, LEONARDO TAFAS CONSTANTINO NASCIMENTO, ANDREA VIDAL FERREIRA, MARINA BICALHO SILVEIRA, WILLIAM TSHISUAKA MBOLELA, JULIANA BATISTA SILVA, CARLOS MALAMUT

CENTRO DE DESENVOLVIMENTO DA TECNOLOGIA NUCLEAR, BRAZIL

The Critical Mass: A Regulatory Approach

- MATTHIAS VANDERHAEGEN^{1,2}, FABIENNE DE SMET²

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Threats and Challenges of the Proliferation of Weapons of Mass Destruction

- ROCIO DE BELEN MARTINEZ ALDACO

COMISIÓN NACIONAL DE SEGURIDAD NUCLEAR Y SALVAGUARDIAS, MEXICO

Locating Defective Fuel Using In Channel Shifts during Normal Fueling Operations at Bruce Power

- GABRIEL ANGELO AVERSANO¹, PAUL GILLESPIE¹, ROSS LEWIS²

¹KINECTRICS, CANADA ²BRUCE POWER, CANADA

Development of Automated Sample Preparation System for Radioactive Waste Samples

- KATSUE MIURA¹, SOICHI SATO¹, YOSHIKI FURUSHO²

¹IAEA, JAPAN ²GL SCIENCE INC., JAPAN

Management of Human Resources in a Nuclear Institution: Determination of Job Profiles

- MARIA LUZ SANTIAGO

INSTITUTO PERUANO DE ENERGIA NUCLEAR, PERU

Development of Passive Safety System for enhancing the Safety of Nuclear Power Plant

- SANGHEE KANG, SUN HEO, SNAGWON LEE

KOREA HYDRO & NUCLEAR POWER CO., LTD., KOREA, REPUBLIC OF (SOUTH KOREA)

Ce3+ doped GdBO3/silica Nanocomposite for Medical Imaging Applications

- SAMIA LADJOUZI¹, RAZIKA TALA IGHIL⁻², SAID HADJI¹

¹CENTRE DE RECHERCHE NUCLEAIRE DE DRARIA BP, ALGERIA. ²BOUMERDES UNIVERSITY, ALGERIA.

Incorporating Mobile Applications in Nuclear Waste Management

- MAURO NAHUEL CASCIATI, PABLO RAFAEL GOMIZ, CLAUDIA LEONOR VETERE

CNEA, ARGENTINE REPUBLIC

Development of Gamma Industrial Process Computerized Tomography for Multiphase Systems Analysis in Brazil.

- MARGARIDA MIZUE HAMADA, ALEXANDRE F. VELO

VELO, DIEGO V. S CARVALHO CARVALHO,

ALEXANDRE G. ALVAREZ, JOÃO F. T. MARTINS, FRANCISCO CAVALLARO, RAFAEL DE A. AMADEU, RODRIGO S. DOS SANTOS, THIAGO L. B. DA SILVA, CARLOS HENRIQUE DE MESQUITA

IPEN/CNEN-SP, BRAZIL

Inspections in Research Laboratories that use Radioactive Sources

- MAURA JULIA BRAGANÇA, BARBARA BEATRIZ RODRIGUES, E. SERGIO SANTINI

CNEN, BRAZIL

Comparison Between Two Techniques of Neutron Radiography in Argonauta Research Reactor

- ANDRE AUGUSTO VIDAL SOARES¹, FRANCISCO JOSE DE OLIVEIRA FERREIRA², ANDRE BARBOSA², ERICA SILVANI SOUZA², ROGERIO CHAFFIN NUNES²

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Control Charts Applied to Water Quality Parameters for Argonauta Reactor

- ISABEL TAVARES COLLAÇA¹, ROGERIO CHAFFIN NUNES², FRANCISCO JOSE DE OLIVEIRA FERREIRA², LUCIANA CARVALHEIRA²

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²INSTITUTO DE ENGENHARIA NUCLEAR, BRAZIL

Qualification of Class 1E Electric Actuators for CAP1400 Nuclear Power Plant

- KAIYUN ZHENG

SHANGHAI POWER EQUIPMENT RESEARCH INSTITUTE CO. LTD., PEOPLE'S REPUBLIC OF CHINA

The Role of Nuclear Regulatory Bodies in Boosting Research and Development in The Nuclear Industry

- CHRISTABEL EKEOCHA

NIGERIAN NUCLEAR REGULATORY AUTHORITY, NIGERIA

Nuclear and Radiological Safety and Security Regulatory Body: Moroccan Experience of an Independent Agency

- ZAINAB OUAJJANE, ASSIA LASFAR, BOUCHRA BOUSTANI

MOROCCAN AGENCY FOR NUCLEAR AND RADIOLOGICAL SAFETY AND SECURITY, MOROCCO

Nuclear Energy Future in Mexico, an Alternative for Power Expansion

- FLORENCIA DE LOS ANGELES RENTERIA DEL TORO¹, ARMANDO M. GOMEZ TORRES²

¹KEPCO INTERNATIONAL NUCLEAR GRADUATE SCHOOL, REPUBLIC OF KOREA ²ININ, MEXICO

05:00 – 06:30 pm: Closing session

Location: PAN - Las Américas

Co-Managers:

Melina Belinco, CNEA, Argentine Republic

Gustavo Gimenez, AYNG., Argentine Republic

Thursday (15 March)

[illegible]

Room Legend

On Wednesday and Thursday YNCWCIN18 is pleased to host the WNU Extended Leadership Workshop (exclusive for WNU alumni) On Friday, Saturday and Sunday we are pleased to offer technical tours (pre-registration required)

Don't forget to use the hashtag #YNWCIN18 on social media!

Room Legend			
Hotel Panamericano	Hotel NH	BEC	
PAN-LA	NH-A	Armaricy	BEC-M Master
PAN-L	NH-F	Los Jardines	BEC-P Palace
PAN-LP	NH-Q	Quintral	BEC-Z Zona
PAN-B		Bridge	