



Sunday 22 May 2016

17:00 - 19:00 Pre-registration

18:00 - 19:00 Welcome Drink

Monday 23 May 2016

Mo 9.00 - 10.30 Opening Session

Chair: E. Unkrig, AREVA GmbH, Germany

Welcome by Erich Unkrig, Chair of the NESTet 2016 Programme Committee and Nathan Paterson, Vice-President of the ENS Young Generation

Pascal Anzieu, Director, Management of Programmes and Training Courses, National Institute for Nuclear Sciences and Technology (INSTN)

The national institute for nuclear science and technology: coping with challenges of a changing world

Franck Wastin, Head of Unit of Nuclear Reactor Safety Assessment, Joint Research Centre (JRC)

Training & Education at JRC: Challenges and Opportunities

10.30 - 11.00 Coffee break

11.00 - 12.30 Managing the nuclear supply chain

Chair: N. Van Austrève, Engie, Belgium

Keynote NESTet2016-A0008	Demonstrating Competence and Capability in the Nuclear Supply Chain	Llewellyn, J. (1) 1 - NSAN, UK
NESTet2016-A0054	Holistic Expert Management: Riding the Waves of Critical Competences	Pöhlmann, M. (1); Nießen, S. (1); Unkrig, E. (1) 1 - AREVA GmbH, Germany
NESTet2016-A0012	Human Resources Trends and Analysis for the Nuclear Energy Sector. EHRO-N Post-Fukushima Report.	Flore, M. (1) 1 - European Commission. Joint Research Centre - Institute for Energy and Transport, Netherlands
NESTet2016-A0003	Opportunities to improve nuclear competencies and their exploitation: a preliminary analysis	Fazio, C. (1); Kloosterman, J.-L. (2); Konings, R. (1); Manara, D. (1); Martin, O. (3); Dieguez Porras, P. (4) 1 - Joint Research Centre Institute for Transuranium Elements, Germany 2 - TU Delft, Netherlands 3 - Joint Research Centre Institute for Energy and Transport, Netherlands 4 - European Nuclear Education Network, France



11.00 - 12.30 Parallel Session: NUGENIA Open Academia Day/Session 1

NUGENIA R&D and Academia mutual benefit pathway: historical briefing on the involvement of academia in collaborative research programme

With invited speakers Hans Henriksson (Vattenfall, Strategic Development) and Monica Sbaffoni (IAEA/Knowledge Management Specialist), the focus within this session will be to open the dialogue with representatives from the academia on the following questions:

- How can R&D results be used in education and training programmes?
- How academia can be more involved in R&D collaborative projects?
And how can NUGENIA help academia?

Pascal Gain will illustrate examples of collaboration between CORYS, private industrial companies and academic organisations on simulation-based training products to improve the quality of training delivery.

12.30 – 13.30 Lunch break

13.30 – 15.30 Generation Y and Z meet Generation III

Chair: E. Unkrig, AREVA GmbH, Germany

With:

Univ.-Prof. Dr. Christian Scholz, Saarland University: Generation Y and Generation Z: How do they tick and how to motivate them

As well as

Nathan Paterson, Vice President ENS Young Generation: When the Atom meets a Hipster: Engagement and Education for the Young Generations

And

Oliver Gilmont, Tractebel-Engie, Belgium: Securing our next Generation of Nuclear Experts thanks to Enthusiasm, Passion and Knowledge Sharing

15.30 – 16.30 Coffee break & Poster Session



16.30 - 18.00 Broadening of programs to adapt to emerging needs

Chair: M. Coeck, SCK-CEN, Belgium

NESTet2016-A0011	Cybersecurity: Moving Forward With Online Nuclear Education and Training	LeClair, J. (1) 1 - National Cybersecurity Institute at Excelsior College, United States
NESTet2016-A0059	IMPLEMENTATION OF KNOWLEDGE MANAGEMENT TOOLS IN UNIVERSITIES	Perminova, M. (1); Demyanuk, D. (1) 1 - National Research Tomsk Polytechnic University , Russian Federation
NESTet2016-A0078	"Time for the reflexive mind" – Preparing the next generation of nuclear scientists and engineers for our complex world	Meskens, G. (1) 1 - Belgian Nuclear Research Centre SCK-CEN, Belgium

16.30 - 18.00 Parallel Session: NUGENIA Open Academia Day – Session 2

How to provide necessary Education & Training to perform cross-border works / customized "Nuclear Passport"

The representative of JRC-ITU Concetta Fazio will guide through this session which will consider the possibility for setting up a customized "Nuclear Passport" in a specific technical field of expertise (e.g. testing, welding, controlling,). The aim is to make exchange, assignment and appointment of work forces easier between NUGENIA member organisations within Europe or even on an international scale.

Tuesday 24 May 2016

9.00 – 10.30 How to ensure that enough motivated and competent workforce is available for the nuclear sector?

Chair: R. Garbil, European Commission

NESTet2016-A0033	THE NUCLEAR TRAINEES PROGRAM – A STRONG ENGIE BANNER	Druenne, H. (1); Jadot, J.-J. (2); Van Autreve, N. (2); Battaglia, A. (2) 1 - BNEN, Belgium 2 - ENGIE Group, Belgium
NESTet2016-A0072	How do organizations build the leadership team´s capacity to lead the organization and to improve performance?	Friedrich, K. (1) 1 - AREVA GmbH, Germany
NESTet2016-A0001	Education and Training in Nuclear Decommissioning - Needs, Opportunities and Challenges	Kockerols, P. (1); Freer, M. (2) 1 - EUROPEAN COMMISSION - JOINT RESEARCH CENTRE, Belgium 2 - UNIVERSITY OF BIRMINGHAM, United Kingdom



NESTet2016-A0010	THE CHALLENGE OF TOO FEW JOB OPENINGS FOR QUALIFIED NUCLEAR POWER TECHNOLOGY GRADUATES: A TEXAS RESPONSE	Henry, R. (1); Kieler, B. (1) 1 - Wharton County Junior College / Texas, United States
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9.00 – 10.30 Parallel Session: Up to date training programmes I

Chair: I. Kljenak, Jožef Stefan Institute, Slovenia

NESTet2016-A0043	PLAYING GAMES TO DEVELOP NUCLEAR TEACHING COMPETENCE	Blomgren, J. (1); Henriksson, H. (2); Lundell, P. (3) 1 - INBEx, Sweden 2 - Vattenfall Strategy R&D, Sweden 3 - ÅF, Sweden
NESTet2016-A0040	Safety through Training - Engineering - Consulting	Dusmann, D. (1); Wischert, W. (2) 1 - GfS Gesellschaft für Simulatorschulung mbH, Germany 2 - KSG Kraftwerks-Simulator-Gesellschaft mbH, Germany
NESTet2016-A0044	Sizewell B Simulator Project: Benefiting from the Latest Technology	Gagnon, B. (1) 1 - L-3 MAPPS, Canada
NESTet2016-A0056	Tecnatom 's simulation solution for education in nuclear fundamental principles	Sancho, A. (1); Rey, P. (1); Gil, E. (1) 1 - TECNATOM, Spain

10.30 – 11.00 Coffee break

11.00 – 13.00 A focus on excellence in project management: we are different! Are we different?

Chaired and moderated by:

Dr. Roland Dumont du Voitel, Managing Partner / CEO at amontis consulting and Vice President at PMI Frankfurt Chapter

With:

Dirk Ebert, Director, Project Management Organization, Operating Plant Business EMEA, Westinghouse

Gauthier Polet, Product Manager & Team leader, Tihange Nuclear Power Plant Projects, Tractebel

Beate Kastner, Project Director, AREVA GmbH

13.00 – 14.00 Lunch break



14.00 - 16.00 Combining theoretical and practical courses for the comprehensive competence building

Chair: M. Palmu, Posiva Oy, Finland

NESTet2016-A0015	TRANSLATING THE EXPERIENCE FROM FULL-SCALE PLUGS AND SEALS EXPERIMENTS INTO A COMPREHENSIVE DOPAS TRAINING WORKSHOP	Palmu, M. (1); Vašíček, R. (2) 1 - Posiva Oy, Finland 2 - Centre of Experimental Geotechnics, Faculty of Civil Engineering, Czech Technical University, Czech Republic
NESTet2016-A0026	Considerations on new Study Plans for Higher Education in Nuclear Engineering and Radioprotection.	Ródenas, J. (1); Carlos, S. (1); Gallardo, S. (1); Miró, R. (1) 1 - Departamento de Ingeniería Química y Nuclear, Universitat Politècnica de València, Spain
NESTet2016-A0032	ENHANCING NUCLEAR SAFETY CULTURE TRAINING THROUGH KNOWLEDGE MANAGEMENT AND EMERGENCY RESPONSE EXERCISES	Schow, R. (1); Jevremovic, T. (1) 1 - The University of Utah, United States
NESTet2016-A0037	Helping to develop efficient communication skills in nuclear engineering courses	Jimenez, G. (1); Fernandez-Cosials, K. (1); Minguez, E. (1) 1 - Universidad Politecnica de Madrid, Spain
NESTet2016-A0057	Lawrence Livermore National Laboratory's Nuclear Criticality and Reactor Physics Experimental Training Assemblies and Activities	Percher, C. (1); Heinrichs, D. (1) 1 - Lawrence Livermore National Laboratory, United States
NESTet2016 - A0082	Assessing the Return on Investment (ROI) of training in the Spanish nuclear industry	Barambones, V (1); Delgado, J.L (1); Ruiz, F.J. (1) 1 - Tecnatom, Spain

14.00 - 16.00 Parallel Session: 'Talking nuclear' in schools and to civil society

Chair: E. Langegger, President of the ENS Young Generation

With:	
Development and Activities of Education Program, "Toward a Safe and Disaster-Resistant Society"	Nakai, A. (1); Suzuki, K. (1); Taniguchi, T. (1) 1 - Okayama University, Japan
Initiatives of the SCK•CEN Academy to motivate high school pupils for STEM	Coeck, M. (1); Clarijs, T. (1) 1 - Belgian Nuclear Research Centre SCK-CEN, Belgium
Museu del Gas: educational activities related to science and technology	Martín, S. (1) 1 - Museu del Gas, Spain
Tools and Strategies to encourage scientific vocations in pre-university students	Amo Ochoa, P. (1); Sanchez, P. (2) 1- Universidad Autónoma de Madrid, Spain 2- Foro Nuclear. Spain



16.00 – 16.30 Coffee break

16.30 – 18.10 How to ensure that enough motivated and competent workforce is available for the nuclear sector?

Chair: M. Scaffoni, IAEA

NESTet2016-A0058	IAEA International Nuclear Management Academy – University Requirements for Master’s in Nuclear Technology Management Programmes	De Grosbois, J. (1); Hirose, H. (1); Hanamitsu, K. (1) 1 - International Atomic Energy Agency, Austria
NESTet2016-A0066	Education and training on research reactors for the building of adequate human resources	Foulon, F. (1); Lescop, B. (1); Ivanovic, S. (1); Badeau, G. (1) 1 - National Institute for Nuclear Science and Technology, CEA, France
NESTet2016-A0022	Research Based Education as a Necessary Infrastructure for Sustainable Development of Nuclear Energy	Cizelj, L. (1); Tiselj, I. (1); Kljenak, I. (1) 1 - Jožef Stefan Institute, Slovenia
NESTet2016-A0041	The European Nuclear Education Network and its actions in favour of Education, Training, Information and Transfer of Expertise	Ambrosini, W. (1); Dieguez Porras, P. (2); Anzieu, P. (1); Cizelj, L. (1); Coeck, M. (1); Dies, J. (1); Eaton, M. (1); Geisser, R. (1); Kropik, M. (1); Tuomisto, F. (1) 1 - Board of Governors of the European Nuclear Education Network, France 2 - European Nuclear Education Network, France

16.30 – 18.10 Parallel Session: Up to date training programmes II

Chair: S. Wearne, University of Manchester, UK

NESTet2016-A0025	Establishment of training center for VVER technology	Miteva, R. (1); Ilieva, M. (1) 1 - Risk Engineering Ltd, Bulgaria
NESTet2016-A00	Distance Learning in Nuclear and Project Management	Heath, S.L. (1); Wearne, S.H.(1) 1 - University of Manchester, UK
NESTet2016-A0036	Curricular Programs and Extracurricular Activities of Nuclear Engineering Education at National Tsing Hua University in Taiwan	Yeh, T.-K. (1); Liang, J.-H. (2); Sheu, R.-J. (2); Shih, C. (2) 1 - Department of Engineering and System Science, National Tsing Hua University, Taiwan 2 - Institute of Nuclear Engineering and Science, National Tsing Hua University, Taiwan
NESTet2016-A0007	Nuclear Education & Training- Critical for preparing Nuclear Human Resources across whole Nuclear Value Chain	Khamseah-A-Idid, S. N. (1) 1 - Imperial College, University of London, United Kingdom

19.30 – 23.00 NESTet Conference dinner



Wednesday 25 May 2016

9.00 – 11.00 What are the tools recently developed for nuclear education and training?

Chair: M. Alonso-Ramos, UNED, Spain

NESTet2016-A0067	INNOVATING NUCLEAR ENGINEERING EDUCATION AND TRAINING THROUGH OPEN AND ONLINE CULTURE	Alonso-Ramos, M. (1); Sánchez-Elvira, Á. (1); Benavent Sendra, J. (1); Bravo Calvo, S. (1); De la Rosa, S. (1); Sanz Gozalo, J. (1); Martín, S. (1); Muñoz Sánchez, S. (1) Castro Gil, M. (1); Merino Moreno, C. (2); González Aure, N. (2) 1 - UNED, Spain 2 - ICA2 Innovación y Tecnología, Spain
NESTet2016-A0023	THE IAEA'S INTERNET REACTOR LABORATORY PROJECT (IRL)	Foulon, F. (1); Borio di Tigliole, A. (2) 1 - CEA, France 2 - IAEA, Austria
NESTet2016-A0031	PyNIC: Python-Based Neutron Interaction Calculator for Accurate Neutron Activation Predictions in TRIGA Experiments and Student Training	Moffitt, G. (1); Porter, J. (1); Jevremovic, T. (1) 1 - The University of Utah, United States
NESTet2016-A0034	Could creativity be taught and evaluated in a nuclear engineering course?	Jimenez, G. (1); Fernandez-Cosials, K. (1); Minguez, E. (1) 1 - Universidad Politecnica de Madrid, Spain
NESTet2016-A0051	Play and learn – A serious game for a better understanding of severe accidents	Peeters, A. (1); Tillement, S. (2); Grousson, C. (2) 1 - ISIB (Institut Supérieur Industriel de Bruxelles), Belgium 2 - Ecole des Mines de Nantes, France
NESTet2016-A0024	Nucleating	Genini, E. (1) 1 - Comisión Nacional de Energía Atómica, Argentina

9.00 – 11.00 Parallel Session: Discover the 'maze' of networks

Chair: E. Janisz, ENS

NESTet2016-A0005	Current Status and Challenges of IAEA Regional Networks Activities in the field of Nuclear Safety	Guo, L. (1); Parlange, J. (1) 1 - International Atomic Energy Agency (IAEA), Austria
NESTet2016-A0009	An Amazing First Ten Years for the Nuclear Technology Education Consortium	Roberts, J. (1) 1 - The University of Manchester, United Kingdom



NESTet2016-A0018	Success Factors of International Education and Training Networks	Ambrosini, W. (1); Jaspers, R. (2); Schoenfelder, C. (3) 1 - CIRTEN, Italy 2 - Eindhoven University of Technology, Netherlands 3 - Schoenfelder.Training, Germany
NESTet2016-A0039	Evolution of the CHERNE network according to the new Erasmus+ program	Gerardy, I. (1); Rodenas, J. (2) 1 - Haute Ecole Paul-Henri Spaak, Catégorie Technique (ISIB), Belgium 2 - Departamento de Ingenieria Quimica y Nuclear, Universitat Politecnica de Valencia, Spain
NESTet2016-A0042	GLOBAL NETWORKING FOR NUCLEAR LEADERSHIP	Davies, L. (1); Wieland, P. (1) 1 - World Nuclear University , United Kingdom
NESTet2016-A0047	Example on How Nuclear Engineering & Science International Networks Collaborate Successfully when Building on their Mutual Strengths	Nakai, A. (1); Schow, R. (2); Jevremovic, T. (2); Suzuki, K. (1) 1 - Center for Safe and Disaster-Resistant Society, Okayama University, Japan 2 - Utah Nuclear Engineering Program, The University of Utah, United States

11.00 – 11.30 Coffee break

11.30 – 13.10 Up to date training programmes III

Chair: K. Katovsky, Brno University of Technology, Czech Republic

NESTet2016-A0048	Long-Term Operation of the Swedish Centre for Nuclear Technology (SKC): new challenges and solutions in competence building!	Henriksson, H. (1); Ekberg, C. (2); Håkansson, A. (3); Anglart, H. (4) 1 - SKC, Swedish Centre for Nuclear Technology, Sweden 2 - Chalmers University of Technology, Sweden 3 - Uppsala University, Sweden 4 - KTH, Royal Institute of Technology, Sweden
NESTet2016-A0052	CROSS TRAINING AS BASIS FOR 3S SYNERGY IMPLEMENTATION	Pushenko, P. (1); Sednev, D. (1) 1 - National Research Tomsk Polytechnic University, Russian Federation
NESTet2016-A0014	Learning readily: How can learning in flow be promoted through web-based training?	Keefer, F. (1); Schoenfelder, C. (2); Geisser, R. (3) 1 - Friedrich-Alexander Universität Erlangen-Nürnberg, Germany 2 - Schoenfelder.Training, Germany 3 - AREVA GmbH, Germany



11.30 – 13.10 Parallel Session: NUSHARE – Training for nuclear safety culture

Chair: L. Cizelj, ENEN

There is plentiful evidence of the significant impact of organisational culture on the economic and safe performance of nuclear installations. Training is key to ensure that operators are prepared for a wide range of possible challenges.

The NUSHARE project helps understanding the underlying cultural influences for successful performances and identifies best practice programmes for the improvement of culture for safety.

With:

Pedro Dieguez: Introduction to the NUSHARE project.

Manfred Haferburg: How to transmit the Safety Culture Idea to the public

Jose Ignacio Villadoniga: A programme to support Top Level Managers to better understand and improve the culture for safety of their organisations.

13.00 – 13.40 Lunch break

13.40 – 15.30 ANNETTE Project: Open Workshop

Discussion of synergies and interaction of stakeholders in nuclear education and training

15.30 Conference Closing

Thursday 26 May 2016

Technical Tours:

9.00 – 13.00 Technical Tour to the Helmholtz Zentrum Berlin

9.30 – 13.00 Technical Tour to the EUREF Campus

Participation based on pre-registration



Poster

Poster Session: Monday 23 May 15.30 – 16.30

Posters will be on display in the conference room during the entire duration of the conference

NESTet2016-A0016	System for Contamination Simulating to Train Environmental Monitoring Teams	Sarusi, B. (1); Broide, A. (1); Dadon, S. (1); Ifrach, I. (1); Kadmon, Y. (1) 1 - NRCN, Nuclear Research Center Negev, Israel
NESTet2016-A0017	Graphical Spectral Software of Synthetic gamma Radiation	Sarusi, B. (1); Broide, A. (1); Osovitzky, A. (1); Levinson, S. (1) 1 - NRCN, Nuclear Research Center Negev, Israel
NESTet2016-A0045	Command and control Vehicle Monitoring (radiometric) system	Dadon, S. (1); Broide, A. (1); Sarusi, B. (1); Levin, Y. (1); Zada, K. (1); Mazor, T. (1); Atias, R. (1); Kadmon, Y. (1) 1 - NRCN, Nuclear Research Center Negev, Israel
NESTet2016-A0046	BRIDGE- The First Nuclear Education Erasmus+ Project	Pavel, G. L. (1); Ghitescu, P. (1) 1 - University Politehnica of Bucharest, Romania
NESTet2016-A0053	Developing multimedia tools for using in radiation safety and laser physics training programs	Stanescu, G. (1); Oprea, A. (1) 1 - "Horia Hulubei" National Institute of Physics and Nuclear Engineering – IFIN HH, Nuclear Training Centre, Romania
NESTet2016-A0055	The Risk Perception measure, prior to the construction of a facility's services diagnostic and therapeutic nuclear medical, in a potentially exposed population of Argentina. Importance of the scientific dissemination.	Favant, J. L. (1) 1 - Cátedra de Ingeniería Ambiental y Saneamiento; Cátedra de Seguridad Biológica y Radiológica; Carrera de Bioingeniería; F, Argentina
NESTet2016-A0061	MASTER IN NUCLEAR ENGINEERING IN BARCELONA: SINERGY AT INDUSTRIAL AND ACADEMIC LEVELS	Batet, L. (1); Calviño, F. (1); Duch, M. A. (1); Reventos, F. (1); Leon, P. (2); Fernandez-Olano, P. (2) 1 - Universitat Politècnica de Catalunya. BarcelonaTECH, Spain 2 - ENDESA, Spain



NESTet2016-A0063	EUROPEAN MASTER IN NUCLEAR ENERGY (EMINE). WHEN ACADEMY AND INDUSTRY MEET	<p>Cabon, B. (1); Anzieu, P. (2); Batet, L. (3); Coste-Leconte, S. (2); Darrigues, I. (4); Dominjon, C. (1); Fernandez-Olano, P. (5); Ferrie, E. (1); Garrido, F. (6); Gudowski, W. (7); Henriksson, H. (8); Moussavi, M. (9); Nuttin, A. (1); Reynier, B. (6); Salvo, L. (1); Vernay, A.-L. (10)</p> <p>1 - Grenoble Institute of Technology, Grenoble-INP, France 2 - INSTN-CEA, France 3 - Universitat Politècnica de Catalunya. BarcelonaTech, Spain 4 - EDF, France 5 - ENDESA, Spain 6 - Université Paris-Saclay, France 7 - Royal Institute of Technology (KTH), Sweden 8 - Vattenfall, Sweden 9 - AREVA, France 10 - Grenoble École de Management, France</p>
NESTet2016-A00	Nuclear Technology Project Management at Manchester	<p>Wearne, S.H.(1)</p> <p>1 - University of Manchester, UK</p>
NESTet2016-A0064	NEW METHODOLOGIES FOR IMPROVING NUCLEAR ENGINEERING SKILLS IN UPV	<p>Barrachina, T. (1); Juste, B. (1); Miro, R. (1); Verdu, G. (1); Rodenas, J. (1)</p> <p>1 - UNIVERSITAT POLITÈCNICA DE VALENCIA, Spain</p>
NESTet2016-A0069	MASTER IN RADIATION PROTECTION FOR RADIOACTIVE AND NUCLEAR INSTALLATIONS	<p>Mayo, P. (1); Verdú, G. (2); Miró, R. (2); Gallardo, S. (2); Juste, B. (2); Ortiz, J. (2); Ballesteros, L. (2); Ródenas, J. (2); Campayo, J. M. (3)</p> <p>1 - Titania Servicios Tecnológicos S. L., Spain 2 - Departamento de Ingeniería Química y Nuclear, Universitat Politècnica de València, Spain 3 - GD ENERGY SERVICES S.A.U., Spain</p>
NESTet2016-A0075	Recent experiments in Nuclear Engineering Education in Italy	<p>Panella, B. (1)</p> <p>1 - Politecnico di Torino, Italy</p>
NESTet2016-A0076	Strengthening competence building in nuclear through collaboration between the Belgian Nuclear Research Centre SCK•CEN, industry and universities	<p>Kesteloot, N. (1); Coeck, M. (1)</p> <p>1 - Belgian Nuclear Research Centre SCK-CEN, Belgium</p>