

# IAEA Nuclear Knowledge Management School

ICTP Trieste, Italy  
Sep 30<sup>th</sup> - Oct 4<sup>th</sup>, 2024

## NKM School Aim

The aim of the school is to provide specialized education and training on the development and implementation of nuclear knowledge management programmes.

## Target Audience

The school is designed for new and/or young professionals involved in nuclear education and training, knowledge management, and human resource development in the nuclear sector and supporting technologies.

## NKM School Objectives

1. To raise participants' awareness of knowledge as a key safety and economic asset in the nuclear sector including the importance of implementing an integrated approach to nuclear knowledge management in their organizations;
2. To review various dimensions of nuclear knowledge management as a key business management tool, including human resources, talent and information management;
3. To train participants on different knowledge management methodologies and practices;
4. To provide participants with an international educational experience and an opportunity for worldwide networking with current and future managers of nuclear knowledge management programmes.

## Day 1: Monday, September 30<sup>th</sup>

Time	Title	Speaker/Lecturer	Room
09:30 – 09:45	Opening Session: Welcoming remarks	<b>Atish Dabholkar</b> Director of ICTP	
09:45 – 09:55	Group Photo		
09:55 – 10:10	Introduction to the ICTP	<b>Natasa STOJIC, ICTP</b>	
10:10 – 10:20	Welcoming remarks from the International Atomic Energy Agency (IAEA)	<b>Pedro Dieguez Porras, NKMS-SH</b>	
10:20 – 10:50	Introduction of Participants and Lecturers	<b>All Participants and Lecturers</b>	
10:50 – 11:15	Coffee Break		
11:15 – 11:45	NKM School Objectives and Programme Overview	<b>Pedro Dieguez Porras</b>	
11:45– 12:15	An Introduction to Knowledge and Knowledge Management	<b>Pedro Dieguez Porras</b>	
12:15 – 13:30	Lunch Break		
13:30 – 14:15	KM Policy and Strategy and the Steps of KM Implementation	<b>Gary Cairns</b>	
14:15 – 15:00	National and Organizational Workforce Planning	<b>Pedro Dieguez Porras</b>	
15:00 – 15:30	Coffee Break		
15:30 – 16:15	Definitions and Main Principles of Knowledge Sharing Culture	<b>Pedro Dieguez Porras</b>	
16:15 – 17:00	Project Work Introduction – start group work	<b>All Participants and Lecturers</b>	<b>Break Out Rooms required</b>

## Day 2: Tuesday, October 1<sup>st</sup>

Time	Title	Speaker/Lecturer	Room
09:30 – 10:00	Critical Knowledge	Pedro Dieguez Porras	
10:00 – 11:00	NKM Risk Assessment - Theory	Gary Cairns/Evgeni	
11:00 – 11:30	Coffee Break		
11:30 – 12:30	NKM Risk Assessment - Practical	Gary Cairns/Evgeni	Break Out Rooms required
12:30 – 13:30	Lunch Break		
13:30 – 14:15	Implementation and the Assignment and Description of NKM Roles and Responsibilities	Pedro Dieguez Porras	
14:15 – 15:00	Case Study 1	TBD	
15:00 – 15:30	Coffee Break		
15:30 – 16:15	Competency Mapping	Gary Cairns	
16:15 – 17:00	Importance of Motivation and Communication in NKM	Pedro Dieguez Porras	

## Day 3: Wednesday October 2<sup>nd</sup>

Time	Title	Speaker/Lecturer	Room
09:30 – 10:15	Knowledge Capture Methods (Theory)	Gary Cairns/Evgeni	
10:15 – 11:00	Knowledge Capture Methods (Practical)	Gary Cairns/Evgeni	Break Out Rooms required
11:00 – 11:30	Coffee Break		
11:30 – 12:15	Case Study 2	TBD	
12:15 – 13:30	Lunch Break		
13:30 – 14:15	Succession Management	Gary Cairns	
14:15 – 15:00	Case Study 3	TBD	
15:00 – 15:30	Coffee Break		
15:30 – 16:15	Coaching and Mentoring for NKM	Gary Cairns	
16:15 – 17:00	Introduction to Information Management	Evgeni	

## Day 4: Thursday October 3<sup>rd</sup>

Time	Title	Speaker/Lecturer	Room
09:30 – 10:15	Indicators for a Comprehensive NKM System	Gary Cairns	
10:15 – 11:00	Case study 4 - Knowledge Management and Legal Risks	TBD	
11:00 – 11:30	Coffee Break		
11:30 – 12:30	Use and Importance of Lessons Learned and Corrective Action Programmes	Gary Cairns	
12:30 – 13:30	Lunch Break		
13:30 – 14:15	NKM Self-Assessment (Theory)	Gary Cairns/Evgeni	
14:15 – 15:30	NKM Self-Assessment (Practical)	Gary Cairns/Evgeni	Break Out Rooms required
15:30 – 16:00	Coffee Break		
16:00 – 17:00	Project Work	All Participants and Lecturers	Break Out Rooms required

## Day 5: Friday October 4<sup>th</sup>

Time	Title	Speaker/Lecturer	Room
09:30 – 10:30	Exam	All Participants	
10:30 – 11:00	Coffee Break		
11:00 – 12:30	Group Presentations	All Participants and Lecturers	
12:30 – 13:30	Lunch Break		
13:30 – 14:00	Role of the IAEA	Pedro Dieguez Porras	
14:00 – 14:30	Survey/feedback discussion with all participants	All Participants	
14:30 – 15:00	Graduation and Distribution of Certificates Ceremony Closing Remarks	All Participants and Lecturers	
15:00 – 16:00	Coffee Break		

## Lecturers

### **Pedro Dieguez Porras. Department of Nuclear Energy, IAEA**



Pedro is the Head of the Nuclear Knowledge Management Section since June 2023. He joined the IAEA in 2020 as Technical Lead on Management and Capacity Building in the Nuclear Power Engineering Section. Previously he was Executive Director at the European Nuclear Education Network, international nonprofit organization (aisbl), based in Brussels, from 2014 to 2019; and Senior Manager and PWR Instructor at Tecnatom, Spanish nuclear engineering services company, from 2009 to 2013. Before joining the nuclear sector, he made his professional career in the Spanish construction and facilities engineering industry.

### **Gary Cairns, Self-Employed Freelance Consultant and IAEA Expert**



Gary Cairns has 40 years' experience in the UK nuclear power, defence and allied industries and has held a wide range of senior management positions for various design, safety and risk management organisations in the UK. Gary is regarded by the IAEA as an expert in nuclear knowledge management and has taken part in many assist visits throughout the world helping governments, nuclear power plants, nuclear regulators and nuclear R&D organisations gain real benefit from adopting best practice approaches. Gary is an experienced facilitator and trainer and has developed and delivered MSc course material for nuclear knowledge management for a wide range of learners across Europe, North America and Asia.

## **Evgeny Kulikov, National Research Nuclear University MEPHI**



Evgeny Kulikov is head of laboratory and associate professor at the National Research Nuclear University MEPHI. He has PhD degree in the field of nuclear reactor physics. His professional interests include nuclear fuel cycle, fast reactor safety and non-proliferation. He provides lectures on the following courses: «Non-proliferation of Nuclear Materials», «Nuclear Knowledge Management» and conducts laboratory works of the following courses: «Dynamics and safety of nuclear power plants», «Methods and instruments of physical measurements», «Experimental reactor physics». He is representative of the Russian Federation in the International Forum Generation IV on education and training and serves as the IAEA expert in educational events.

# Joining Instructions

The NKM school will be held in the Abdus Salam International Centre for Theoretical Physics (ICTP) campus, the Giambiagi Lecture Hall (AGH), Strada Costiera, 11, I - 34151 Trieste (Italy).

The [Giambiagi Lecture Hall](#) is located on the Lower Level 1 of the Adriatico Guesthouse (at the top left hand side of the following site picture)



## HOW TO REACH ICTP CAMPUS FROM TRIESTE AIRPORT

- From Trieste "Ronchi dei Legionari" Airport to ICTP by bus:

The bus stops are located in the new "Intermodal Hub" connected to the airport through a footbridge. Check the display screens in the airport for bus departure times. At the airport, bus tickets can be purchased at the Agenzia Turismo FVG on the ground floor or from the automatic machine at the arrivals hall. The current cost of bus tickets is: Airport-Grignano: Euro 3.30.

Bus E51 runs from the airport to Trieste and has a stop at Grignano (pronounced greenah'no) close to the ICTP campus and the Adriatico Guesthouse. The Adriatico Guesthouse is downhill from the bus stop while the Galileo Guesthouse, the Leonardo Building and other ICTP buildings are uphill.

To find your way around ICTP campus and for further travel information, please visit our homepage at: <http://www.ictp.it/visit-ictp.aspx>

- From Trieste "Ronchi dei Legionari" Airport to ICTP by train:

Trieste Airport has recently opened a new train stop at its Intermodal Hub. Trains are run by Trenitalia; fares from the airport to Trieste Centrale cost Euro 4.05, and the trip takes about half an hour. From Trieste Centrale to ICTP you can take bus 6 (direction Grignano) or a taxi.

Please note that bus tickets must be purchased before you board the bus; you can buy them at the tabacchi shop inside the train station situated by the front entrance.