

Program

Time: July 22-24, 2026

Venue: Radisson Blu Seaside Hotel, Helsinki, Finland

Registration

Time: 10:00-21:00, July 21, 2026 (Tuesday); **Place:** Hotel Lobby, Ground Floor

Opening Ceremony

Time: 09:30-09:45, July 22, 2026 (Wednesday); **Place:** Valimo 1-3, Ground Floor

Keynote Forum

Time: 09:45-11:50, July 22, 2026 (Wednesday); **Place:** Valimo 1-3, Ground Floor

Moderator **Dr. R. Anthony Rolle**, Professor, University of South Florida, USA; Past-President, National Education Finance Academy

09:45-09:50 **Moderator's Introduction**

09:50-10:10 **Title:** The Historical and Current Mismeasurement of Educational Productivity
Dr. R. Anthony Rolle, Professor, University of South Florida, USA; Past-President, National Education Finance Academy

10:10-10:30 **Title:** The Demography of Education and Human Capital Formation Around the World 1970-2070
Dr. Wolfgang Lutz, Founding Director, The Wittgenstein Centre for Demography and Global Human Capital, Austria

10:30-10:50 **Title:** Recent Progress in Ocean and Climate Change Action
Dr. Peter Ricketts, Past-President and Vice-Chancellor, Acadia University, Canada

10:50-11:10 **Title:** Protection of the Baltic Sea - What Is Helsinki City Doing?
Mr. Esa Nikunen, Former General Director, Environment Services, City of Helsinki, Finland

11:10-11:30 **Title:** Scaling Geothermal Energy for the Energy Transition: EU Market Uptake and Insights from the Eastern Lights Project with CO₂-coupled Approach
Dr. Isabella Nardini, Manager of International Affairs, Fraunhofer IEG, Institution for Energy Infrastructures and Geothermal Systems, Germany

11:30-11:50 **Title:** On the Surprising Beauty of Mathematics
Dr. David Harel, President, Israel Academy of Sciences and Humanities Jerusalem, Israel

The 14th Annual World Congress of Ocean (WCO-2026)

WCO 01: Maritime Law and Blue Economy

Time: 14:00-17:00, July 22, 2026 (Wednesday); **Place:** Valimo 6, Ground Floor

Chair **Dr. Zhen Jing**, Professor, The Institute of International Law, Wuhan University, China

14:00-14:05 **Chair's Introduction**

- 14:05-14:25 **Title:** Developing and Implementing International Shipping Standards: IMO's Role in Global Ocean Governance
Dr. Norman Martinez, Professor, Director, IMO International Maritime Law Institute, Malta
- 14:25-14:45 **Title:** Development Trends and Countermeasures of International Marine Cooperation Under the Background of Climate Change
Dr. Hui Zhu, Professor, Dalian Ocean University, China
- 14:45-15:05 **Title:** Marine Insurance Law Reform in the New Chinese Maritime Code 2025
Dr. Zhen Jing, Professor, The Institute of International Law, Wuhan University, China
- 15:05-15:25 **Title:** Maritime Law and Sea-Dumped Munitions: Accountability, Risk Governance, and Practical Pathways for Action in the Baltic Sea and European Waters
Dr. Terrance (Terry) P. Long CD., Chairman, International Dialogues on Underwater Munitions (IDUM), Canada
- 15:25-15:45 **Title:** Dark Waters: The Shadow Fleet and International Environmental Law
Dr. Maša Kovič Dine, Head of the Department of International Law, Faculty of Law, University of Ljubljana, Slovenia
- 15:45-16:00 **Coffee Break**
- 16:00-16:20 **Title:** Connecting the Dots: How China's New Maritime Code Reshapes Global Routes and the Hainan Free Trade Port
Mr. Ling Jiang, Partner, Grandall Law Firm (Hainan), China
- 16:20-16:40 **Title:** Ship Owners Right to Limit Liability - Whether an Absolute One?
Dr. Hari Narayan, Partner, United Maritime Law Chambers, India
- 16:40-17:00 **Title:** Marketing the Blue Economy: Shifting Public Perception and Attracting the Next Generation to Maritime Careers
Dr. Rasa Žilienė, Professor in Economics Department and Projects Manager, Kaunas University of Technology, Lithuania

WCO 02: Marine Ecology Conservation and Fisheries Sustainability

Time: 09:00-12:40, July 23, 2026 (Thursday); **Place:** Valimo 6, Ground Floor

Chair **Dr. Francesca Pellegrino**, Professor, University of Messina, Italy

Co-chair **Dr. Lin Feng**, Professor, Sichuan Agricultural University, China

09:00-09:05 **Chair's Introduction**

09:05-09:30 **Title:** Pioneering Works in Mangrove Reforestation

Mr. Kogo Motohiko, Founder, Action of Mangrove Reforestation, Japan

09:30-09:55 **Title:** Caspian Seals on Ice: Monitoring and Conservation in the Context of Climate Change

Dr. Zhanar Naurozbayeva, Head of the Regional Climate Change Laboratory, Institute of Geography and Water Security, Kazakhstan

09:55-10:20 **Title:** The Protection of the Marine Environment as a 'Common Concern of Humankind'

Dr. Francesca Pellegrino, Professor, University of Messina, Italy

- 10:20-10:45 **Title:** Storm Surges and Climate Change in the German Bight and Hamburg's Adaption Strategy
Dr. Gabriele Gönnert, Professor, Department Head Hydrology and Water Management, Agency of Roads, Bridges and Waters Hamburg, Germany
- 10:45-11:00 **Coffee Break**
- 11:00-11:25 **Title:** Conversion of Natural Coastal Wetlands to Mariculture Ponds on Methane Emissions
Dr. Weixin Ding, Professor, The Institute of Soil Science, Chinese Academy of Sciences, China
- 11:25-11:50 **Title:** Impacts of Mycotoxins in Aquafeed on Fish Immune Systems and Mitigation Mechanisms
Dr. Lin Feng, Professor, Sichuan Agricultural University, China
- 11:50-12:15 **Title:** Global Shipping and Ocean Plastic Solution with Pyrolysis
Chief Roy S Jones Jr, President and Resource Recovery Specialist, Aboriginal Equity Partners Incorporated
- 12:15-12:40 **Title:** Preserving Ocean Wildlife
Dr. Robin Attfield, Professor Emeritus, Cardiff University, UK

WCO 03: Coastal Engineering, Smart & Resilient Ports and Disaster Risk Management

Time: 14:00-17:40, July 23, 2026 (Thursday); **Place:** Valimo 6, Ground Floor

- Chair** **Mr. Fred Felleman**, Commissioner, Port of Seattle, USA
- Co-chair** **Mr. Dennis Hwang**, Faculty, University of Hawaii Sea Grant College Program, NOAA, USA
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** Hurricane Beryl: Impacts on Barbados Fishing Harbour & Other Major International Coastal Infrastructure Projects
Mr. Kevin Macintosh, CEO, Baird Associates, Canada
- 14:25-14:45 **Title:** AIoT-Integrated Maritime Safety and Disaster Management Framework for Coastal Smart Villages
Dr. Dongseob Song, Professor, Kangwon National University, South Korea
- 14:45-15:05 **Title:** Balancing Commerce, Communities and Climate: The Port of Seattle Experience
Mr. Fred Felleman, Commissioner, Port of Seattle, USA
- 15:05-15:25 **Title:** Driving Port Competitiveness: The Role of Change Management in Digital Transformation
Mr. Vesa Koivumaa, Head of Strategic Growth, Wärtsilä, Houston, USA
- 15:25-15:45 **Title:** How is the Mediterranean Preparing for the Return of Cruising?
Mr. Airam Díaz, Deputy Director, Ports of Tenerife, Spain
- 15:45-16:00 **Coffee Break**
- 16:00-16:20 **Title:** Building the Future Maritime Workforce: New Competencies for Sustainable Shipbuilding
Dr. Minna M. Keinänen-Toivola, Project Director, CEO, Massachusetts Maritime Academy and Gate of Hope Maritime Ltd., Finland

- 16:20-16:40 **Title:** Strategies for Preparing the Public for Natural Hazards Building Resilience Through Targeted Engagement
Mr. Dennis Hwang, Faculty, University of Hawaii Sea Grant College Program, NOAA, USA
- 16:40-17:00 **Title:** Sea-Level Rise at the Amazon River Mouth: Insights from Remote Sensing and Citizen Science
Dr. Valdenira Santos, Professor, Federal University of Amapá, Brazil
- 17:00-17:20 **Title:** S-100 Based Shared Situational Picture in Case of Vessels in Distress
Mr. Gunnar Tietze, Director, SeaTopic, Germany
- 17:20-17:40 **Title:** Reliability Analysis of Complex Systems with Warm Standby Units and General Repair Times
Dr. Yaqoob Mubarak Al Rahbi, Assistant Professor, Sohar University, Oman

WCO 04: Ocean Energy, Ocean Science & Technology Innovation

Time: 09:00-12:40, July 24, 2026 (Friday); **Place:** Valimo 6, Ground Floor

Chair **Dr. David Brown**, Co-founder and CEO, Broadbit, Finland

09:00-09:05 **Chair's Introduction**

09:05-09:30 **Title:** Environmental Policy and Risk Regulatory for Sustainable Tidal Current Energy
Dr. Ran Guo, Professor, Shanghai Maritime University, China

09:30-09:55 **Title:** Harvesting Energy from Slow-Moving Water at the Far Lowest Cost on the Market
Ms. Elena Diana Opreescu, Head of Marketing, Tidal Sails AS, Norway

09:55-10:20 **Title:** Sodium-Salt Batteries for Marine Applications
Dr. David Brown, Co-founder and CEO, Broadbit, Finland

10:20-10:45 **Title:** The Nutritional Characteristics and Multifaceted Applications of Deep Sea Water
Dr. Yaqin Hu, Professor, Vice-dean, Hainan Tropical Ocean University, China

10:45-11:00 **Coffee Break**

11:00-11:25 **Title:** Internet of Oceans: An Open Foundry Roadmap for Learning Twins
Mr. Earl J. Dodd, Co-Founder & CTO, MMersive Technology, Inc., USA

11:25-11:50 **Title:** Key Technologies for Optimizing the Quality of 5G Navigation and Positioning Observation Information for Intelligent Terminals
Dr. Bo Wang, Professor, Beijing Institute of Technology, China

11:50-12:15 **Title:** Research Vessels and Alternative Ocean Data Collection Opportunities
Mr. Thomas Wissmann, Founder & General Manager, Offshore Solutions Unlimited™, USA

12:15-12:40 **Title:** Risk Mitigation in Offshore Renewable Energy: Innovation and Bankability
Mr. Michael Bullock, Director, Renewable Risk Advisers Ltd., UK

The 8th World Congress of Education (WCE-2026)

WCE 01: Disruptive Edu-Tech Forum

Time: 14:00-17:00, July 22, 2026 (Wednesday); **Place:** Valimo 5, Ground Floor

Chair	Dr. Marilyn Lambert-Drache , Chair and Associate Professor, York University, Canada
14:00-14:05	Chair's Introduction
14:05-14:25	Title: AI on College Campuses: Impacts on Academic, Administrative and Student Support Processes Dr. Julie Furst-Bowe , Academic Vice President, Saint Mary's University of Minnesota, USA
14:25-14:45	Title: Language Teaching and Learning in the AI Era: Challenges and Opportunities Dr. Marilyn Lambert-Drache , Chair and Associate Professor, York University, Canada
14:45-15:05	Title: Creative Destruction? The Problem of Education and Labor in the AI Economy Dr. Dante Abelardo Urbina Padilla , Professor, University of Lima, Peru
15:05-15:25	Title: Bridging the Gap Between Novice and Expert Practice in Data Science Dr. Mahtash Esfandiari , Faculty and Director, UCLA Department of Statistics and Data Science, USA
15:25-15:45	Title: Artificial Intelligence in Distance Learning Assessment: Applications and Ethical Challenges Dr. Elize du Plessis , Professor, University of South Africa, South Africa
15:45-16:00	Coffee Break
16:00-16:20	Title: Mutual Mediation Training and Its Influence on Peer Interaction and Learning Motivation in a Computerized (ICT) Environment Dr. Lea Atzmon-Mordoch , Researcher, Bar-Ilan University, Israel
16:20-16:40	Title: Public Value Logic of Substantive Sharing of Global Educational Resources in the Era of Digital-Intelligent Civilization - Theoretical Exploration and Practical Wisdom of Chinese Mainland in Addressing Imbalanced Educational Development Prof. Zushe Yuan , Director, The Institute for Advanced Studies in Philosophy and Social Sciences, Shaanxi Normal University in Xi'an, China
16:40-17:00	Title: Moral Education in the Age of AI: A Confucian Perspective Dr. Kai Wang , Professor, Beijing Normal University, China

WCE 02: Vocational and STEAM Education Innovation Forum

Time: 14:00-16:40, July 22, 2026 (Wednesday); **Place:** Valimo 4, Ground Floor

Chair	Dr. Richard Cangro , Professor and Director of Music Education, Western Illinois University, USA
14:00-14:05	Chair's Introduction
14:05-14:25	Title: An Innovative Pedagogical Approach: Project-Based Learning for Career-Readiness Dr. Esther Boucher-Yip , Professor, Worcester Polytechnic Institute, USA

- 14:25-14:45 **Title:** Profound Music Learning Through Sustainable Engagement
Dr. Richard Cangro, Professor and Director of Music Education, Western Illinois University, USA
- 14:45-15:05 **Title:** Can Extended Reality (XR) Technology Shape the Future of Science Education?
Dr. Murat Genç, Professor, Düzce University, Turkey
Ms. Esra Kılıç, Chief Product Officer, Exploristan R&D, Turkey
- 15:05-15:25 **Title:** Optimising 1:1 Singing Lessons for Neurodivergent Learners
Ms. Miriam Allan, Soprano, Singing Teacher, SEN Support Teacher, UK
- 15:25-15:45 **Title:** Construction and Effectiveness Research of In-depth Spiral Ascending Technological Innovation Education Model
Dr. Jing Song, Academic Principal, Springboard International Bilingual School, China
- 15:45-16:00 **Coffee Break**
- 16:00-16:20 **Title:** Research on Fashion Products Design of Chinese Dialect Visualization
Dr. Zheqian Liu, Lecturer, Huazhong University of Science and Technology, China
- 16:20-16:40 **Title:** Whole Teachers: An Inquiry into Krishnamurti's Educational Philosophy
Dr. Anbananthan Rathnam, Lean Partner Sdn. Bhd, Petaling Jaya, Malaysia

WCE 03: Humanities and Social Science Education Forum

Time: 09:00-12:20, July 23, 2026 (Thursday); **Place:** Valimo 5, Ground Floor

Chair **Dr. Edna Langenthal**, Full Professor, Ariel University, Israel

Co-chair **Dr. Elke Schuch**, Professor, Technical University of Cologne, Germany

09:00-09:05 **Chair's Introduction**

09:05-09:25 **Title:** Personalisation in Inclusive Education: The Teacher-Learner Journey
Dr. Stefanija Alisauskiene, Professor, Vytautas Magnus University, Lithuania

09:25-09:45 **Title:** Academic Performance, Academic Aspirations, and Risk-Taking Behaviors Among Adolescents
Dr. Sampson Lee Blair, Associate Professor, The State University of New York, USA

09:45-10:05 **Title:** Design and Research in Architectural Education
Dr. Edna Langenthal, Full Professor, Ariel University, Israel
Dr. Itzik Elhadif, Senior Lecturer, Ariel University, Israel

10:05-10:25 **Title:** Social Justice as Pedagogy: Reframing Early Childhood Education Beyond Market Logics
Dr. June O'Sullivan, CEO, London Early Years Foundation, UK

10:25-10:45 **Title:** The Importance of Humanistic Cultivation in the Age of AI
Dr. Xuanmin Luo, Professor & Director, Guangxi University, China

10:45-11:00 **Coffee Break**

- 11:00-11:20 **Title:** Designing International Teaching Formats: Insights from a Collaborative Online International Learning (COIL) Project
Dr. Elke Schuch, Professor, Technical University of Cologne, Germany
- 11:20-11:40 **Title:** Ma Yifu's Pursuit of Traditional Chinese Education and What We Can Learn from Him
Dr. Weijing He, Professor, University of Jinan, China
- 11:40-12:00 **Title:** On the Changing Notion of University/Higher Education: Which Way Now?
Dr. Arup Maharatna, Formerly Rajiv Gandhi Chair Professor, University of Allahabad, India
- 12:00-12:20 **Title:** Education and Ecology in Transition: Pedagogical Adaptation and Culturally Grounded Research in Bokaro, India
Dr. Nadene Charlotte Mackay, Doctoral Candidate in Education, Cardiff University, UK

WCE 04: Higher Education Forum

Time: 14:00-18:00, July 23, 2026 (Thursday); **Place:** Valimo 5, Ground Floor

- Chair** **Dr. Jacqueline E van Muijlwijk-Koezen**, Professor & Chief Education Officer, Vrije Universiteit Amsterdam, the Netherlands
- Co-chair** **Dr. Jingzi Huang**, Professor, Associate Dean, University of Northern Colorado, USA
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** Strengthening Identity in Higher Education - Sharing a Story of Place at the University of Tasmania, Australia
Dr. Clair Andersen, Associate Professor, University of Tasmania, Australia
- 14:25-14:45 **Title:** Students with a Broader Mind for a Sustainable Future
Dr. Jacqueline E van Muijlwijk-Koezen, Professor & Chief Education Officer, Vrije Universiteit Amsterdam, the Netherlands
- 14:45-15:05 **Title:** Education for Sustainable Rural Tourism Development
Dr. Dora Smolčić Jurdana, Professor, Faculty of Tourism and Hospitality Management, University of Rijeka, Croatia
- 15:05-15:25 **Title:** Aiming at a Moving Target: Designing Curricula for Future-Fit Graduate Attributes
Dr. Suki Goodman, Professor, Organisational Psychology Unit, University of Cape Town, South Africa
- 15:25-15:45 **Title:** Transforming Hybrid Executive Education Through the Connect Framework
Dr. Martine Durier-Copp, Adjunct Professor, Dalhousie University, Canada
- 15:45-16:00 **Coffee Break**
- 16:00-16:20 **Title:** Spotting the Fake: Understanding and Teaching Deepfake Detection
Dr. Dion Goh, Professor, Nanyang Technological University, Singapore
- 16:20-16:40 **Title:** The Democratization of Education in Quebec: From Faith, Farm and Family to a Modern Educated Society
Dr. Samuel Clement, Professor, Marianopolis College; Adjunct Lecturer, Concordia University, Canada

- 16:40-17:00 **Title:** Leadership for Flourishing. What does Love have to Do with It?
Dr. Katy Granville-Chapman, Deputy Head, Wellington College, UK
Mrs. Emmie Bidstone, Director, Wellington College, UK
- 17:00-17:20 **Title:** Learning by Doing, Selling and Earning
Mr. Luis Fernando Sanabria, Chief Operating Officer, Fundacion Paraguaya, Paraguay
- 17:20-17:40 **Title:** Making Higher Education in Iraq Fit for Purpose: Challenges, Opportunities, and Strategic Pathways for Reform
Dr. Serwan M. J. Baban, Professor, The Presidency of Kurdistan Region, Iraq
- 17:40-18:00 **Title:** Challenges and Opportunities for Collaborative Strategies to Develop Future K-12 Teachers in the Current U.S. Environment
Dr. Jingzi Huang, Professor, Associate Dean, University of Northern Colorado, USA

WCE 05: Specialized Education Innovation and Research Forum

Time: 09:00-12:20, July 24, 2026 (Friday); **Place:** Valimo 5, Ground Floor

Chair **Dr. John Sabatini**, Distinguished Research Professor, University of Memphis, USA
Co-chair **Dr. Molly Zhou**, Professor and Endowed Chair, School of Education at Dalton State College, USA

09:00-09:05 **Chair's Introduction**

09:05-09:25 **Title:** Transitional Age Youth (TAY) Fellowship in Psychiatry: The Importance of Implementing a One-year Training Program Focusing on the Developmental and Psychiatric Needs of Youth Ages 15-25
Dr. Timothy C. Van Deusen, Associate Professor of Psychiatry, Yale University School of Medicine, USA

09:25-09:45 **Title:** Taking the Journey Together: Collaborative Strategies for Classroom Inclusion
Dr. Bernadette Anand, Instructor/Advisor, Bank Street College, USA

09:45-10:05 **Title:** Scenario-Based Learning and Assessment in the Age of Generative AI: Empowering Instructors to Advance Their Course Practices
Dr. John Sabatini, Distinguished Research Professor, University of Memphis, USA

10:05-10:25 **Title:** Bringing "(Smile)" into Clinical Practice - Enhancing Medical Communication Through the Power of Humor -
Dr. Rieko Matsuoka, Professor, Teikyo University, Japan
Dr. Tadashi Nakamura, Director, Nakamura ENT Clinic, Japan

10:25-10:45 **Title:** Education on Using Interpreters in Medical Practice
Dr. Salma Iftikhar, Assistant Professor, Mayo Clinic College of Medicine, USA

10:45-11:00 **Coffee Break**

11:00-11:20 **Title:** AI and Teacher Education: Threat or Rescuer
Dr. Molly Zhou, Professor and Endowed Chair, School of Education at Dalton State College, USA

11:20-11:40 **Title:** When Family Language Policy Meets Official Language Policy: Preserving Home Language for the Future Generations
Ms. Larissa Aksinovits, Chairperson, The Association of Home/Heritage Language Teachers, Finland

- 11:40-12:00 **Title:** Dimensions of Inter-and Transdisciplinarity in Children's Musical Creations
Dr. Johanna Maria Roels, Retired Professor Piano, University of Antwerp, Belgium
- 12:00-12:20 **Title:** Integrating Broca's and Wernicke's Activation into the Neuro-Language Learning Model
Dr. Mehmet Deniz Demircioglu, Lecturer, Bursa Uludağ University, Turkey

WCE 06: Video Forum

- 1 **Title:** Active Learning of Children with Special Educational Needs
Dr. Mirosław Kowalski, Associate Professor, University of Zielona Gora, Poland
Dr. Klaudia Kasowska, Doctor of Social Science, University of Zielona Gora, Poland
- 2 **Title:** Innovation in Education: Monopoly of Technological Tools or Simultaneous Application of a Way of Thinking and an Attitude to Life?
Dr. Andreas C. Lazaris, Professor, Medical School, The National and Kapodistrian University of Athens, Greece
- 3 **Title:** Empowering Girls in STEM: Educational Experience of a Female Mathematics Workshop Process
Dr. Cristina Manzaneda, Professor, University Catholica of North, Chile

The 12th World Energy Congress (WEC-2026)

WEC 01: Global Energy Policies, Market and Future Trends

Time: 14:00-16:40, July 22, 2026 (Wednesday); **Place:** Valimo 2, Ground Floor

- Chair** **Dr. Giovanni Perillo**, Visiting Professor, Cranfield University, UK
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** Clean Energy Initiatives of Small Islands, Okinawa, in 2025
Dr. Jun-ichiro Giorgos Tsutsumi, Professor Emeritus, University of the Ryukyus, Japan
- 14:25-14:45 **Title:** Gaia-X - "We enable Sovereign Interoperable Ecosystems"
Mr. Roland Fadrany, COO, Gaia-X Association, Austria
- 14:45-15:05 **Title:** Innovative Approaches for Urban Environment Adaptation to Climate Change
Dr. Giovanni Perillo, Visiting Professor, Cranfield University, UK
- 15:05-15:25 **Title:** The Geopolitics of Natural Gas and the U.S.-Israel War with Iran
Ambassador (ret.) Matthew Bryza, Managing Director, Straife LLC, Turkey
- 15:25-15:45 **Title:** The Economics of Energy Transition: Why Incentives Matter More Than Technology
Dr. Erin Boyd, Chief Digital Strategy & AI Officer, AES, USA
- 15:45-16:00 **Coffee Break**
- 16:00-16:20 **Title:** Carbon-Neutral Finland: Pathways, Opportunities, and Challenge
Dr. Svetlana Proskurina, Post-doctoral Reasercher, Lappeenranta-Lahti University of Technology, Finland

16:20-16:40 **Title:** A Systematic Review of Architectural Mitigation Strategies and Regulatory Pathways for Urban Heat Island Effect
Dr. Xun Li, Assistant Professor, Beijing Normal-Hong Kong Baptist University, China

WEC 02: New Energy Technology and Energy Storage Innovation

Time: 09:00-12:40, July 23, 2026 (Thursday); **Place:** Valimo 4, Ground Floor

Chair **Dr. Shinsho Oryu**, Professor, Tokyo University of Science, Japan
Co-chair **Dr. Saim Memon**, CEO and Industrial Professor, Sanyou London and Birmingham City University, UK

09:00-09:05 **Chair's Introduction**

09:05-09:30 **Title:** Ultra Low Energy Nuclear Fusion Without Radioactive Material
Dr. Shinsho Oryu, Professor, Tokyo University of Science, Japan

09:30-09:55 **Title:** New Possibilities for Photovoltaic Plants and Projects in Germany
Dipl.-Phys. Joerg Sutter, Deputy Chairman of the Technical Committee for Photovoltaic, German Solar Energy Society (DGS), Germany

09:55-10:20 **Title:** Realistic Energy Loss Reduction with Mild Heating with World's First Vacuum Insulated Heatable Curtain
Dr. Saim Memon, CEO and Industrial Professor, Sanyou London and Birmingham City University, UK

10:20-10:45 **Title:** New Perspectives on Energy Conversion and the Future Outlook of Shockwave-Based Power Generation Technologies
Dr. Uzu-Kuei Hsu, Professor, National Pingtung University of Science and Technology, Taiwan

10:45-11:00 **Coffee Break**

11:00-11:25 **Title:** Five Volts Lithium Batteries with Advanced Carbonate-Based Electrolytes via a Trio-Functional Addon Materials
Dr. Daniel Q. Tan, Deputy Head of Department of Materials Science and Engineering, Guangdong Technion-Israel Institute of Technology, China

11:25-11:50 **Title:** The Ecological and Environmental Impacts of Run-off-River Type Small Hydropower Plants (HPP's) in North Eastern Anatolian Small Basins of Türkiye
Dr. İbrahim Gürer, Professor, Başkent University, Turkey

11:50-12:15 **Title:** Closed-Loop Charge Transfer and Accumulation in Triboelectric Energy Harvesters
Dr. Jongjin Lee, Professor, Gyeongsang National University, South Korea

12:15-12:40 **Title:** Fusion Power Cells: Compact, High-Density Energy for the Next Industrial Revolution
Dr. Rakesh Dubey, Professor, University of Szczecin, Poland

WEC 03: Green Hydrogen and Renewable Fuels: New Paths for Industrial Decarbonization

Time: 09:00-12:15, July 24, 2026 (Friday); **Place:** Valimo 4, Ground Floor

Chair **Dr. Ervin Tal-Gutelmacher**, CEO, Hydrolite Ltd., Israel

09:00-09:05 **Chair's Introduction**

- 09:05-09:30 **Title:** Process Electrification: A Key Decarbonization Technology
Dr. Jamal Chaouki, Professor, Polytechnique Montréal, Canada
- 09:30-09:55 **Title:** Prospects for Alkaline Exchange Membrane (AEM) Electrolysis
Dr. Ervin Tal-Gutelmacher, CEO, Hydrolite Ltd., Israel
- 09:55-10:20 **Title:** Green Hydrogen and Renewable Fuels: The Path to Net Zero
Mr. Dennis Bauer, Head of Sales, NEUMAN & ESSER, Germany
- 10:20-10:45 **Title:** Feasibility Comparison of Non-fossil Based Hydrogen Manufacturing Routes
Dr. Tuomas Koiranen, Professor, LUT University, Finland
- 10:45-11:00 **Coffee Break**
- 11:00-11:25 **Title:** UK CAA Hydrogen Challenge
Ms. Helen Leadbetter, Technical Strategy Lead Zero Emissions Flight, UK Civil Aviation Authority, UK
- 11:25-11:50 **Title:** Cleaner Fossil Fuel Operations as a Competitive Advantage
Ms. Cindy Crow, Oil & Gas Industry Principal, AVEVA, USA
- 11:50-12:15 **Title:** Hydrogen Storage Materials Based on Mg₂Ni Obtained by Milling Under Argon
Dr. Eli Grigorova, Associate Professor, Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Bulgaria

WEC 04: Video Forum

- 1 **Title:** Nonconjugated Conductive Polymers For Protection Against Nuclear Radiation Including Radioiodine; Nonlinear Optical Properties
Dr. Mrinal Thakur, Professor, Photonic Materials Research Laboratory, Auburn University, USA
- 2 **Title:** Gravity Pressure Vessel Technology™ for Waste-to-Energy, Renewable Natural Gas, Byproducts, and Critical Minerals Recovery
Mr. Roger D. Ford, President, Eureka Energy Corporation, USA

The 7th International Congress of Environment (ICE-2026)

ICE 01: Hot Topics in Environment Field

Time: 14:00-18:40, July 23, 2026 (Thursday); **Place:** Valimo 4, Ground Floor

- Chair** **Dr. Tapas K. Das**, Professor, Saint Martin's University, USA
- Co-chair** **Dr. Anthony E. Chavez**, Professor, Chase College of Law, Northern Kentucky University, USA
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** A Crude Quantification of the Climate Impact of Food Systems: Data-Driven Approaches for Sustainable Diets
Dr. JeeYeon Hong, Research Professor, Hanyang University, South Korea
- 14:25-14:45 **Title:** ESG and Opportunities for Sustainability: ESG as a Strategic Driver of Long-term Value Creation
Dr. Patricia Iglecias, Professor, University of Sao Paulo, Brazil

- 14:45-15:05 **Title:** Renewable Energy Development in Poland: Regional Disparities and Environmental Impacts
Dr. Aleksandra Jezierska-Thole, Associate Professor, Kazimierz Wielki University, Poland
- 15:05-15:25 **Title:** Converting Graphite into Porous Graphene-containing Nanostructures for the Adsorptive Removal of Volatile Organic Compounds
Dr. Barbara Szczesniak, Assistant Professor, Institute of Chemistry, Military University of Technology, Poland
- 15:25-15:45 **Title:** Sustainable Waste Management Toward Circular Economy
Dr. Tapas K. Das, Professor, Saint Martin's University, USA
- 15:45-16:00 **Coffee Break**
- 16:00-16:20 **Title:** From Dairy Wastewater to Agricultural Resource: Constructed Wetlands for Water Reuse and Sludge Management
Dr. Joanna Rodziewicz, Professor, University of Warmia and Mazury in Olsztyn, Poland
- 16:20-16:40 **Title:** Cleaning Up After Ourselves: CDR as a Waste Solution
Dr. Anthony E. Chavez, Professor, Chase College of Law, Northern Kentucky University, USA
- 16:40-17:00 **Title:** Water and Wastewater Management Challenges in Polish Dairy Plants: Water Consumption, Effluent Treatment and Sewage Sludge Processing
Dr. Wojciech Janczukowicz, Professor, University of Warmia and Mazury in Olsztyn, Poland
- 17:00-17:20 **Title:** Research Progress on Solid Fuel Preheating Combustion Technology
Dr. Shujun Zhu, Associate Professor, Institute of Engineering Thermophysics, Chinese Academy of Sciences, China
- 17:20-17:40 **Title:** Research on Ultra-Low Emission Technology of Circulating Fluidized Bed at Full Load Range
Dr. Weijian Song, Associate Professor, Institute of Engineering Thermophysics, Chinese Academy of Sciences, China
- 17:40-18:00 **Title:** A Review of Adaptive Water Management Solutions for Europe and New Possible Solutions
Dr. Constantin Sandu, Senior Researcher and Project Manager, Romanian Research and Development Institute for Gas Turbines-COMOTI, Romania
- 18:00-18:20 **Title:** Innovative Integrated Greywater and Roof Stormwater Reuse System for Single-Family Buildings: Potential for Potable Water Reduction and Sustainable Water Management - HYDROSTRATEG
Dr. Katarzyna Miszta-Kruk, Doctor, Warsaw University of Technology, Poland
- 18:20-18:40 **Title:** Innovative Circular Business Models for Repair and Reuse of Clothing Textiles
Dr. Malahat Ghoreishi, Doctor, LAB University, Finland

ICE 02: Video Forum

- 1 **Title:** Shape Memory Phenomena and Thermomechanical Transformations Governing Reversibility in Shape Memory Alloys
Dr. Osman Adiguzel, Professor, Firat University, Turkey
- 2 **Title:** Emerging Technologies Applied to Water Resources Management
Dr. Erika Alves Tavares Marques, Post-doc Researcher, Federal University of Pernambuco, Brazil
- 3 **Title:** Improving the Energy-ecological Safety of Residential Buildings Through the Reasonable Use of Energy Resources in the Household Sphere
Dr. Andrii Polyvianchuk, Professor, Vinnytsia National Technical University (VNTU), Ukraine

The 11th Annual Global Congress of Knowledge Economy (GCKE-2026)

GCKE 01: Smart City Ecosystem: Innovating Energy and Education

Time: 14:00-18:10, July 22, 2026 (Wednesday); **Place:** Dynamo 1, Ground Floor

- Chair** **Dr. Andreas Koch**, Professor, Department of Sociology and Social Geography, University of Salzburg, Austria
- Co-chair** **Dr. Victor N. Shaw**, Professor, California State University-Northridge, USA
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Keynote Speech**
Title: Interdisciplinary Research on Real Estate
Dr. Jan Veuger, CEO, CORPORATE Real Estate Management, the Netherlands
- 14:25-14:45 **Title:** The Silver Smart Society and City - Future Vision 2050
Dr. Anne Stenros, CEO, Creative Catalyst, Finland
- 14:45-15:05 **Title:** The Impact of Local Social Engagement on Knowledge-Driven Urban Planning
Dr. Andreas Koch, Professor, Department of Sociology and Social Geography, University of Salzburg, Austria
- 15:05-15:25 **Title:** Mass-Customizable Digital Design Pipeline System Oriented by Modular Efficient Habitat Products
Dr. Yan Gao, Associate Professor, Institute of Future Human Habitats, Tsinghua Shenzhen International Graduate School, Tsinghua University, China
- 15:25-15:45 **Title:** Use Green Energy When Available
Dr. Hermann Kaindl, Senior Researcher, Vienna University of Economics and Business, Austria
- 15:45-16:00 **Coffee Break**
- 16:00-16:20 **Title:** Integrated Octal Analysis: A Logical Extension of Modified Quadriform Analysis
Dr. R. Anthony Rolle, Professor, University of South Florida, USA
- 16:20-16:40 **Title:** AI Tools in Classroom Practice: The Case of Tunghai University's AI Program
Dr. Jeng Liu, Distinguished Professor and Vice President, Tunghai University, Taiwan

- 16:40-17:00 **Title:** In the Court of Public Opinion: A Zone of Error Shared by Overseas Chinese
Dr. Victor N. Shaw, Professor, California State University-Northridge, USA
- 17:00-17:30 **Title:** Driving Workforce Transformation Through Competency-Based Learning: A Singapore Case Study with SMRT
Dr. Mia Eng Tay, Assistant Director, Nanyang Polytechnic (NYP), Singapore
Mr. Albert Tan, Lead Specialist, Nanyang Polytechnic (NYP), Singapore
- 17:30-17:50 **Title:** Algorithms with Empathy: AI at the Nexus of Smart and Restorative Cities
Dr. Csongor Herke, Professor & Head, Faculty of Law, University of Pécs, Hungary
- 17:50-18:10 **Title:** Language Infrastructures and Networked Knowledge Systems
Dr. Nirmala Menon, Chair Professor, School of Humanities and Social Sciences, Indian Institute of Technology Indore, India

GCKE 02: Future-Oriented Social Sciences, Digital Economy and Sustainability

Time: 09:00-12:20, July 23, 2026 (Thursday); **Place:** Dynamo 1, Ground Floor

- Chair** **Dr. Cees Th. Smit Sibinga**, Professor of University of Groningen and Director of IQM Consulting, the Netherlands
- Co-chair** **Dr. Jianghong Liu**, Senior Lecturer in Economics and Finance, London Metropolitan University, UK
- 09:00-09:05 **Chair's Introduction**
- 09:05-09:25 **Title:** The Economy of Knowledge: the Time Perspective of Economy and Sustainability
Dr. Rolf Torstendahl, Professor Emeritus, Uppsala University, Sweden
- 09:25-09:45 **Title:** A World Run on Sunshine
Mr. John H. Patterson, President, JP Innovation Inc., USA
- 09:45-10:05 **Title:** The Existing Knowledge Gaps and Knowledge Economy
Dr. Smit Sibinga, Professor of University of Groningen and Director of IQM Consulting, the Netherlands
- 10:05-10:25 **Title:** From Problem to Opportunity: Invasive Japanese Algae *Rugulopteryx Okamurae*
Dr. Isabel de Sousa, Full Professor, School of Agriculture/University of Lisbon, Portugal
- 10:25-10:45 **Title:** Fintech, Digital Savings, and Income Inequality: Cross-Country Evidence from Emerging and Developing Asia
Dr. Jianghong Liu, Senior Lecturer in Economics and Finance, London Metropolitan University, UK
Dr. Wangning Zhou, Lecturer in Economics and Finance, London Metropolitan University, UK
- 10:45-11:00 **Coffee Break**
- 11:00-11:20 **Title:** Nescience - Risk but Source of Progress
Dr. Rainer P. Hasenauer, Honorary Professor, Marketing Management Institute, Vienna University of Economics and Business (WU Vienna), Austria

- 11:20-11:40 **Title:** Neuroleadership: A Promising Approach to Generate Organizational Tectonic Changes in Learning and Scientific Societies: How to Lead Organizations and Unpredictable Futures
Dr. María de los Ángeles Ortiz Reyes, Director, University of Puerto Rico, Puerto Rico
- 11:40-12:00 **Title:** When Your Coworker Innovates with AI: A Tale of Two Envies and the Critical Role of Transparency
Dr. Yunshuo Liu, Associate Professor, North China Electric Power University, China
- 12:00-12:20 **Title:** Trustworthy Public Infrastructures for Achieving Digital Sovereignty in Comprehensive Digital Ecosystems by Example of European Blockchain Service Infrastructure (EBSI)
Mr. Steffen Schwalm, Principal Business Consultant, msg systems ag, Germany

GCKE 03: AI & Blockchain: Shaping Resilient Digital Ecosystems

Time: 14:00-17:00, July 23, 2026 (Thursday); **Place:** Dynamo 1, Ground Floor

- Chair** **Dr. Jan Veuger**, CEO, CORPORATE Real Estate Management, the Netherlands
Co-chair **Dr. Ed Siregar**, Founder and AI Researcher, Seji Labs, Spain
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** Uncovering the Knowledge Economy of Modern SMS Scams: From "Hey Mum" to Smishing Hooks
Dr. Guillermo Suarez-Tangil, Head of the Cybersecurity Research Lab, IMDEA Networks, Spain
- 14:25-14:45 **Title:** A New Method for Monitoring Air Pollution
Dr. Su-Fen Yang, Distinguished Professor, National Chengchi University, Taiwan
- 14:45-15:05 **Title:** Knowledge Economy of Human+Machine Systems in the Age of AI
Dr.-Ing. Federico Grasso Toro, Digitalisation Expert / Data S, GRASSO TORO DIGITAL SOLUTIONS, Switzerland
- 15:05-15:25 **Title:** Can Artificial Intelligence Be Designed to Care? Structural Principles for Human-Centered AI in the Knowledge Economy
Dr. Ed Siregar, Founder and AI Researcher, Seji Labs, Spain
- 15:25-15:45 **Title:** A Comprehensive Framework for Robust and Explainable Query Optimization Using Machine Learning
Dr. Verena Kantere, Full Professor, School of Electrical Engineering and Computer Science, Faculty of Engineering, University of Ottawa, Canada
- 15:45-16:00 **Coffee Break**
- 16:00-16:20 **Title:** Interoperable Digital Twins via Asset Administration Shells: Architectural Models and Horizontal Interconnection for Adaptive Production Ecosystems
Prof. Dr.-Ing. Ute Dietrich, Professor, HTW Berlin, University of Applied Sciences, Germany
- 16:20-16:40 **Title:** AI-Based Text Processing, Classification, and Language Identifier for Biomedical Text in Indian Languages
Dr. Shashi Pal Singh, Scientist 'F' & Project Director, Official Language Projects (OLP), C-DAC, India

16:40-17:00 **Title:** Building a Safer AI Future for Children: Lessons from Creating the IEEE P3642 Standards

Mr. Prasanna Vijayanathan, Lead, Model Deployment Subgroup, IEEE P3642 Guidelines for Safety by Design for Generative AI, USA

GCKE 04: Video Forum

1 **Title:** Privatization and Research and Development (R&D) Incentives in Mixed Oligopolies: A Consistent Conjectural Variations Analysis

Dr. Viacheslav Kalashnikov, Professor and Researcher, Autonomous University of Nuevo Leon, Mexico

Co-authors: Elizabeth Guadalupe Ramírez Aranda, Jose Guadalupe Flores-Muniz, and Nataliya Kalashnykova

2 **Title:** Maps of the Mind: Human Creativity in the Age of AI

Dr. Katrin Herget, Assistant Professor, University of Aveiro, Portugal

3 **Title:** Business and Its Role in Creating New Value Linked to Climate Responsibility in Business

Dr. hab. Barbara Siuta-Tokarska, Associate Professor, Krakow University of Economics, Poland

Dr. hab. Nina Stępnicka, Associate Professor, Casimir Pulaski Radom University, Poland

Dr. hab. Katarzyna Żmija, Associate Professor, Krakow University of Economics, Poland

Dr. Agnieszka Thier, Assistant, Krakow University of Economics, Poland

Mgr. Justyna Thier-Janus, Postgraduate, Krakow School of Business, Cracow University of Economics, Poland

4 **Title:** Importance of Intercultural Dialogue as a Methodology

Dr. Claudia Wanderley, Researcher, Universidade Estadual de Campinas (UNICAMP), Brazil

Posters

WCO 01 **Title:** Nutritional Values Versus Contamination Levels of Marine Fish from Rapa Nui (Easter Island), Southeast Pacific

Mr. Yves Letourneur, Professor, University of New Caledonia, New Caledonia

ICE 02 **Title:** Improving the Energy-ecological Safety of Residential Buildings Through the Reasonable Use of Energy Resources in the Household Sphere

Dr. Andrii Polyvianchuk, Professor, Vinnytsia National Technical University (VNTU), Ukraine