



International Exchange of Professionals - Thematic Event in Sustainable Development

Date: November 11-13, 2025

Venue: Grand Prince Hotel Osaka Bay, Japan



The 10th Annual Global Congress
of Knowledge Economy



The 7th World Congress
of Education



The 13th Annual World Congress
of Ocean



The 11th World Energy Congress



The 12th Annual World Congress
of Food and Nutrition



The 6th International Congress
of Environment



The 9th Annual World Congress
of Smart Materials



The 3rd World Congress
of AI Industry



The 3rd Smart Manufacturing
Forum

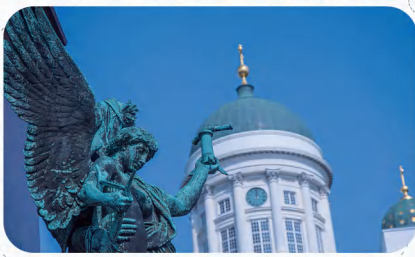
International Exchange of Professionals - Thematic Event in Sustainable Development

Date: July 22-24, 2026

Venue: Helsinki, Finland

CALL FOR

- Plenary/Keynote Speakers
- Session Chairs, Speakers and Attendees
- Co-organizers and Supporting Organizations
- Collaborative Partners, Media and Journals
- Sponsors, Exhibitors and Posters



CONFERENCE HIGHLIGHTS

- Integrating 6 Parallel Scientific Meetings
- Leading Lectures, Posters and Exhibition Opportunity
- Big Party to Celebrate with 200+ Participants
- Diversified Program and Culture Activities
- Exchange Ideas, Build New Networks and Foster Friendships

CONTACT

FOR WCO



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FOR WCE



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FOR WEC



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FOR GCKE



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FOR WCFN



Ms. Alma Yang
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FOR ICE



Mr. Andy Liu
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Hosting Organization



World High Technology Society

Operating Organizations



BIT Group Global Ltd.



Shenzhen Center for
International Exchange of Personnel

Supporting Organizations



China Association for
International Exchange of Personnel



IMarEST

Exhibitor



Sea Solar Power Inc.

Media Partners



Program Committee

Executive Chair

Dr. Xiaodan Mei, President, BIT Group Global Ltd., China

Scientific Advisory Board Members

The 10th Annual Global Congress of Knowledge Economy (GCKE-2025)

Dr. Andreas Koch, Professor and Co-Director of the Center for Ethics and Poverty Research, University of Salzburg, Austria

Dr. Badri Narayanan Gopalakrishnan, Co-Founder and Partner, Infinite Sum Modelling LLC, USA

Dr. Bijan Tadayon, CEO, Z Advanced Computing, Inc., USA

Dr. Chaman L. Sabharwal, Professor, Missouri University of Science and Technology, USA

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Dr. Ute Dietrich, Professor, HTW Berlin, University of Applied Science, Germany

Mr. Yu Tack Kim, Team Leader, Korea Battery Industry Association, South Korea

The 7th World Congress of Education (WCE-2025)

Dr. Andreas Zehetner, Professor, University of Applied Sciences Upper Austria, Austria

Dr. Baruch Offir, Professor, School of Education, Bar-Ilan University, Israel

Dr. Christoph Meinel, President and CEO, Hasso Plattner Institute for IT-Systems Engineering, Germany

Dr. Dirk Rohr, Professor, University of Oldenburg, Germany

Dr. Elaine Chapman, Deputy Head, University of Western Australia, Australia

Dr. Helen Y. Sung, Adjunct Professor, Alliant International University, USA

Dr. Hiroshi Ishida, Professor, University of Tokyo, Japan

Dr. Jacqueline E van Muijlwijk-Koezen, Vice Dean, Amsterdam Institute of Molecular and Life Sciences, Vrije Universiteit Amsterdam, the Netherlands

Dr. Jean-Paul Close, Founder, STIR Foundation Eindhoven, the Netherlands

Dr. Joseph Prud'homme, Director, Institute for Religion, Politics and Culture, Washington College, USA

Dr. Katrin Liebers, Professor, Leipzig University, Germany

Dr. Liliana Rodrigues, Professor, University of Madeira, Portugal

Dr. Michael Owen, Dean and Professor, Faculty of Education, Brock University, Canada

Dr. Timothy C. Van Deusen, Associate Professor, Yale University School of Medicine, USA

Dr. Tsukasa Daizen, Director, Research Institute for Higher Education, Hiroshima University, Japan

Air Vice-Marshal Prof. Rich Withnall, Director of Defence Healthcare, Defence Medical Services, UK

Dr. Vincent Wayne Mitchell, Professor, University of Sydney, Australia

The 13th Annual World Congress of Ocean (WCO-2025)

Ms. Abigail-Laure Kern, UNESCO Chair in Technologies for Development, Cooperation & Development Center, Switzerland

Mr. Andreas Bullwinkel, Landlord & CEO, Container Terminal Wilhelmshaven Jade Weser Port-Marketing GmbH & Co. KG, Germany

Dr. Andreas Nordseth, Director General, Danish Maritime Authority, Denmark

Dr. Angelica M. Baylon, Director, Maritime Academy of Asia and the Philippines, Philippines

Dr. Baoguo Han, Professor, School of Civil Engineering, Dalian University of Technology, China

Mrs. Barbara Amerio, President, Permare Group, Italy

Dr. Charles C Zhou, CEO, Cascade Clean Energy, Inc., USA

Mrs. Charlotte Ahrendt Steen, Deputy Director-General, Danish Maritime Authority, Denmark

Dr. Elias Boletis, Director, Wartsila, the Netherlands

Dr. Eric Rolf Hansen, President, Economic Transformations Group, Inc., USA

Mr. Esa Nikunen, General Director, Environment Services, City of Helsinki, Finland

Mr. Gerhard Aulbert, Global Head Ship Recycling, DNV GL, Norway

Mr. George Guy Thomas, Creator of Satellite-Based AIS, Former US Science & Technology Advisor for Maritime Domain Awareness, USA

Dr. Henrik Schmidt, Professor & Director, Massachusetts Institute of Technology, USA

Dr. Ikuo Yamamoto, Professor, Nagasaki University, Japan

Mr. James Fanshawe, Chairman, UK Masrwg, UK

Mr. James Huang, Vice President, DNV GL, Norway

Prof. Jian Lu, Group Leader of Coastal Water Resource Protection and Sustainable Utilization, Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, China

Dr. Jin Wang, Vice President, Engineering COTEC Offshore Engineering Solutions, USA

Dr. Koh Chan Ghee, Professor, Department of Civil and Environmental Engineering, National University of Singapore, Singapore

Prof. Laurence McCook, Head of Oceans Conservation, World-Wide Fund for Nature Hong Kong, Hong Kong, China

Mr. Michael G. Zell, Chairman, Svenska Skeppshypotek, Sweden

Dr. Ove T. Gudmestad, Professor, University of Stavanger, Norway

Mr. Paul Holthus, Founding President & CEO, World Ocean Council, USA

Dr. Pichai Sonchaeng, Founder President, Samudhabhipat (Marine Power) Foundation; Director, BUU Innopolis, Burapha University, Thailand

Mr. P. Foerd Ames, Inventor & Owner, OWECO Ocean Wave Energy Company, USA

Mr. Roger Johnston, CEO, Pilbara Ports Authority, Australia

Dr. Tetsuya Hiraishi, Professor, Disaster Prevention Research Institute, Kyoto University, Japan

Dr. Tai-Wen Hsu, Vice-President, Professor, National Taiwan Ocean University, Taiwan

Mr. Yiqiang Xiang, Professor & Director, College of Civil Engineering and Architecture, Zhejiang University, Research Center for Submerged Floating Tunnel, CCEA, ZJU, China

Mr. Yves De Leeneer, President Elect, Board Member, IMarEST, Singapore

Porf. Yasuo Arai, President, International Association of Institutes of Navigation, Japan

The 11th World Energy Congress (WEC-2025)

Dr. Andrew Murdoch, CEO, Arche Energy Pty Ltd., Australia

Dr. Bin Yang, Associate Professor, Washington State University, USA

Dr. Cengiz S. Ozkan, Professor, University of California-Riverside, USA

Dr. Gento Mogi, Associate Professor, The University of Tokyo, Japan

Dr. Gordon Huang, Fellow, Canadian Academy of Engineering; Canada Research Chair & Professor, University of Regina, Canada

Mr. Hang Yue, CEO/Founder, Engineering Intelligence on You, Healthcare Data Analyst, Healthcare Data Practical Science, Johns Hopkins Healthcare LLC, USA

Dr. Jie Tang, Practice Manager, The World Bank, Singapore
Dr. Les Alexander, President and CEO, The Battery Innovation Center, USA
Dr. Marcantonio Catelani, Professor, University of Florence, Italy
Mr. Ray Noble, Operations Director, Welink Energy, UK
Dr. Renal Backov, Professor, CRPP-UPR CNRS University of Bordeaux, France
Dr. Rocío Perez de Prado, Associate Professor, University of Jaen, Spain
Dr. Sam Goldman, CEO, D.light, USA
Dr. Shixue Dou, Distinguished Professor, University of Wollongong, Australia
Dr. Zhao Ma, Professor, China Electric Power Research Institute, China

The 12th Annual World Congress of Food and Nutrition (WCFN-2025)

Dr. Ayman Sayegh, Professor, Tuskegee University, USA
Dr. Catherine B. Frederico, Professor, Newbury College, USA
Dr. Christopher John Smith, Professor, Manchester Metropolitan University, UK
Dr. Encarnacion Moyano, Professor, University of Barcelona, USA
Dr. Frank Thies, Reader, University of Aberdeen, UK
Dr. Harumi Okuyama, Professor Emeritus, Nagoya City University, Japan
Dr. Haydar Ozpinar, Professor, Istanbul Aydin University, Turkey
Dr. Jacek Namiesnik, Professor, Gdansk University of Technology, Poland
Dr. Jacqueline McCormack, Professor, University of Ulster, UK
Dr. Joan Claria, Professor, University of Barcelona, Spain
Dr. Juergen Schrezenmeir, Professor, Clinical Research Center Kiel, Germany
Dr. Julie Dennis, Founder, Natural Community, USA
Dr. Kin-Fah Chin, Professor, University Malaysia, Malaysia
Dr. Kit L. Chin, Professor, Southern University Agricultural Research and Extension Center, USA
Dr. Kathleen Liang, Professor, University of Vermont, USA
Dr. Luc Tappy, Professor, University of Lausanne School of Biology and Medicine, Switzerland
Dr. Mario Ciampolini, Professor of Pediatrics, University of Florence, Italy
Dr. Nur Hassan, Head of Course-Undergraduate Engineering, CQ University Australia, Australia
Dr. Peter Guilfoyle, Vice President, Northwest Analytics, USA
Dr. Renaudin Nathalie, Public Affairs Officer, Edenred, France
Dr. Sandrine Blanchemanche, Director, French National Institute for Agricultural Research, France
Dr. Sebastien Marque, Director, Danone Research, France
Dr. Shancy Rooze, Head, University Children's Hospital Queen Fabiola, Belgium
Dr. Simon Eisner, Founder & CEO, Allwin Ltd., Sweden
Dr. Sirpa Kurppa, Research Professor, MTT Agrifood Research Finland, Finland
Dr. Soranit Siltharm, Director, Mahidol University, Thailand

Dr. Susan Lurie, Professor, Volcani Center ARO, Israel

Dr. Yie-Hwa Chang, President, Mediomics LLC, USA

The 6th International Congress of Environment (ICE-2025)

Dr. Amrane Abdeltif, Director, Technological Institute of Rennes, France

Dr. Andrea Bencsik, Professor, Univerzita J. Selyeho of Komarno, Slovak

Dr. Francesco Lops, Associate Professor, University of Foggia, Italy

Dr. Giorgio Doderò, President, IPG Industrial Project Group Srl., Italy

Dr. Giovanni Perillo, Professor, National Agency of Digital Transformation, Italy

Dr. Hülya Coskun, Associate Professor, Rumeli University, Turkey

Dr. Joanna Piotrowska - Woroniak, Bialystok University of Technology, Poland

Dr. John van Genderen, Professor, University of Twente, the Netherlands

Dr. Jozef Sabol, Associate Professor, Police Academy of the Czech Republic in Prague, Czech Republic

Dr. Kim Choon Ng, Professor, King Abdullah University of Science & Technology, Saudi Arabia

Dr. Masakazu Anpo, Special Honor Professor and International Advisor, Fuzhou University, China; Emeritus Professor of OPU, Japan

Dr. Muhammad Wakil Shahzad, Senior Lecturer, Northumbria University, UK

Dr. Peter Lilienthal, CEO, HOMER Energy Global Microgrid Lead, UL Renewables, USA

Dr. Peter Lohmander, Professor, Swedish University of Agricultural Sciences, Sweden

Dr. Srikanth Narasimalu, Program Director & Principal Research Scientist, Energy Research Institute, Nanyang Technological University, Singapore

Dr. Tadeusz Szumiata, Associate Professor, Radom University, Poland

Dr. Ursula A. Vavrik, Director, NEW WAYS Center for Sustainable Development, Austria

Dr. Xiaoe Yang, Professor, MOE Key Lab of Environmental Remediation and Ecological Health, Zhejiang University, China

Dr. Xiaolu Tang, Professor, Chengdu University of Technology, China

Dr. Xiaowu Huang, Associate Professor, Environmental Engineering, Guangdong Technion-Israel Institute of Technology, China

The 9th Annual World Congress of Smart Materials (WCSM-2025)

The 3rd World Congress of AI Industry (WCAI-2025)

The 3rd Smart Manufacturing Forum (SMF-2025)

Dr. Anjan Ghosh, Professor, Dhirubhai Ambani Institute of Information and Communication Technology, India

Dr. Biswaranjan Senapati, Parker Hannifin Corporation, USA; University of Arkansas at Little Rock, USA

Dr. Bouyer Etienne, Adjunct Director, CEA, France
Dr. David Bassir, Professor, University of Technology of Belfort-Montbéliard, France
Dr. Donald L. G. Sturgeon, CEO & CTO, Multifibers LLC, USA
Dr. Evangelos Hristoforou, Professor, National Technical University of Athens, Greece
Dr. Fabrizio Nardo, CEO & Director of Technology, Antifemo S.r.l., Italy
Dr. Francois Trochu, Adjunct Professor, Ecole Polytechnique de Montreal, Canada
Dr. Hairong Lei, Research Staff Engineer, ASML HMI, USA; Executive Vice President of Trademarkia, USA
Mr. Hadi Moztaarzadeh, Senior Technology Officer, University of Warwick, UK
Dr. Lidietta Giorno, Director, Institute on Membrane Technology of the National Research Council of Italy, Italy
Dr. Milica Curcic, Senior Research Associate, Institute of Physics Belgrade, Serbia
Pr. Nour-Eddine Fenineche, Professor, The University of Technology of Belfort-Montbéliard, France
Dr. Oleksandr Malyuskin, Senior Lecturer, Queen's University Belfast, UK
Dr. Sanjeev Sanghi, Professor, Indian Institute of Technology, India
Dr. Selvi Kannan, Senior Lecturer, University of Tasmania, Australia
Dr. Vitalyi Igorevich Talanin, Full Professor and Scientific Consultant, Khortytsia National Academy, Ukraine
Dr. Wael Zatar, Dean and Professor, College of Engineering and Computer Sciences, Marshall University, USA

Program Coordinators

GCKE	Ms. Bonnie Tan / bonnie.tan@gala-tek.com
WCE & WEC	Ms. Miranda Liu / miranda.wce@gala-tek.com
WCO	Mr. David Zhang / david.wco@gala-tek.com
WCFN	Ms. Alma Yang / alma.wgc@galaccluster.com
ICE	Mr. Andy Liu / ada.ice@galatech-loc.com
WCSM & WCAI & SMF	Ms. Snowy Liang / snowy.wcsm@gala-loc.com

Welcome Remark

Distinguished Guests, Esteemed Colleagues, and Friends,

On behalf of the organizers, it is with immense pleasure that we welcome you to the International Exchange of Professionals - Thematic Event in Sustainable Development 2025! This exciting event, convening from November 11th to 13th at Grand Prince Hotel Osaka Bay, Osaka, Japan, promises to be a landmark gathering.

We are proud to be hosted by the World High Technology Society, operated by BIT Group Global Ltd. and Shenzhen Center for International Exchange of Personnel. We also extend our gratitude to the esteemed supporting organization China Association for International Exchange of Personnel and IMarEST.


This unique conference integrates nine distinct parallel meetings, encompassing a wide range of sustainable development disciplines:

- The 10th Annual Global Congress of Knowledge Economy
- The 7th World Congress of Education
- The 13th Annual World Congress of Ocean
- The 11th World Energy Congress
- The 12th Annual World Congress of Food and Nutrition
- The 6th International Congress of Environment
- The 9th Annual World Congress of Smart Materials
- The 3rd World Congress of AI Industry
- The 3rd Smart Manufacturing Forum

Through meticulous preparation, we are delighted to welcome over 250 specialists from 41 countries and regions. This esteemed gathering fosters a vibrant exchange of knowledge and collaboration. As always, our mission is to connect leading academic scientists and researchers across diverse fields, such as economy, education, ocean, knowledge, energy, environment, food, nutrition, material, AI industry, and manufacturing. This platform allows for the sharing of groundbreaking ideas and advancements within sustainable development. The conference offers a wealth of learning and networking opportunities, including keynote lectures, posters, exhibition and engaging oral talks.

We are thrilled to have you join us! Together, let's make this event a resounding success.

Sincerely yours,



Dr. Xiaodan Mei
Executive Chair

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List of Organizations and Event Organizers

Welcome Remark

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Floor Plan

Program

Keynote Forum

Speakers' Profiles

Mr. Paul Holthus, Prof. Sergei Prants, Dr. Qiang Xu, Dr. James Wang,

Prof. Dr. Jacqueline E. van Muijlwijk-Koezen, Dr. Julie Furst-Bowe, Dr. Jan Kazmierczak,

Dr. Simon Thomas, Dr. Hugh Glass

The 10th Annual Global Congress of Knowledge Economy (GCKE-2025)

GCKE 01: Tech Innovation & Digital Transformation

Speakers' Profiles

Dr. Leslie Paul Thiele, Dr. James R. Stone III, Dr. David J. Smith, Dr. Nikolaos Milonas,

Dr. Nicolaj Hannesbo Petersen, Dr. Ioana Filipas, Dr. Francois Marmier, Dr. Mark van der Pas,

Dr. Yvonne Kabeya Saini, Dr. Sally Dzingwa

GCKE 02: Smart Cities, Geography and Urban Economics

Speakers' Profiles

Dr. Yaron Ergas, Dr. Valentina Colcelli, Mr. Manoj Dalaya, Dr. Andreas Koch, Dr. Jan Veuger,

Mr. Andrew Gardiner, Dr. David de Wild, Dr. Abood K. Alamoudi

GCKE 03: Artificial Intelligence, Industrial, Manufacturing Engineering

Speakers' Profiles

Dr. Ute Dietrich, Dr. Lucas Zimmer, Dr. Ibrahim Abdullahi, Dr. Felix T. S. Chan, Dr. Irina Illina,

Dr. Doron Netzer, Dr. Deivison Feitosa Silva, Dr. Ji-Jen Hwang, Dr. Hyun-A Park

GCKE 04: Economic Governance & Sustainable Development

Speakers' Profiles

Dr. Souad Lajili Jarjir, Dr. Arthur Charpentier, Mr. Mathieu Sollier, Dr. Jianghong Liu,

Dr. Paulo Alves Pardal, Dr. Amna Javed, Dr. Anjali Prashad

GCKE 05: Energy, Environment and Climate

Speakers' Profiles

Dr. Harold L. Dodds, Ind. Ing. Stefano Ambrosini, Mr. Michael Storch, Mr. Craig Applegath,
Dr. Bernard Twarog, Dr. Natangue Heita Shafudah

GCKE 06: Management of Technology Education and Research

Speakers' Profiles

Dr. Baruch Offir, Dr. Syh-Jong Jang, Dr. Gilbert Paquette, Dr. Clair Andersen, Dr. Takeo Higuchi,
Dr. Rupam Saran

GCKE 07: Video Forum

Speakers' Profiles

Dr. Viacheslav Kalashnikov, Ms. Lynda Hamadene, Mr. Luis Pisco, Dr. Anatoly Davidovsky

The 7th World Congress of Education (WCE-2025)**WCE 01: Higher Education Forum (I)**

Speakers' Profiles

Dr. Elaine Chapman, Dr. Ohashi Yoshie, Dr. Hassan Al-Derham, Dr. Julie Furst-Bowe, Dr. Yiping Wu,
Dr. Peyman Ghassemi Pour Sabet, Ts. Dr. Capt. Manivannan Subramaniam, Dr. Carlos A. V. Costa,
Dr. Ana Thudichum Vasconcelos, Dr. Mehmet Deniz Demircioğlu

WCE 02: Disruptive Edu-Tech Forum

Speakers' Profiles

Dr. Kaoru Sumi, Dr. William T. Tarimo, Dr. Jean-Eric Pelet, Dr. Dena Gilby, Dr. David Okoth,
Dr. Marcia J. Mackey, Dr. John Sabatini, Dr. Martin Žagar, Dr. Jing Song

WCE 03: Medical and Health Education Forum

Speakers' Profiles

Dr. Grazyna Nowak-Starz, Dr. Lacroix Valérie, Dr. Dorota Rębak, Dr. Prashant Jindal,
Dr. Mariola Wojciechowska, Dr. Agnieszka Strzelecka

WCE 04: Higher Education Forum (II)

Speakers' Profiles

Dr. Jennifer Stokes, Prof. Dr. Jacqueline E. van Muijlwijk-Koezen, Dr. Anita Bledsoe-Gardner,
Dr. Sue Walker, Dr. Jacqueline J. Schenk, Dr. Stefanija Alisauskiene, Dr. Julija Grigenaite,
Dr. Qing Wu, Dr. Ulla Damber, Prof. Dr. Dagmar Reichardt, Dr. Julie Cwikla

WCE 05: STEAM Education Forum

Speakers' Profiles

Dr. William Yip, Dr. Richard Cangro, Dr. Ofira Ayalon, Dr. Vanina Lorenzi, Dr. Christine Chancogne, Dr. Peer Mohideen Sathikh, Dr. Santa Gregorj-Santini, Dr. Jorge Manuel dos Reis Tavares Duarte

WCE 06: Humanities and Social Science Education Forum

Speakers' Profiles

Dr. Mutsuko Tendo, Dr. Jean-Paul Close, Dr. Davina D. Rousell, Dr. Doreen Frencheater, Dr. Kalpana Mukunda Iyengar, Dr. Claudia Marinho Wanderley

WCE 07: Video Forum

Speakers' Profiles

Dr. Marja-Liisa Tenhunen, Dr. Oksana Ivanova, Dr. Lorenzo Manera, Mr. David Wortley, Dr. Mahtash Esfandiari, Dr. Aliya Khalid, Dr. Ephraim Grossman, Dr. Ricardo León Bórquez, Dr. Mirosław Kowalski, Dr. Anita Famuła-Jurczak, Dr. Roseanne L. Flores

The 13th Annual World Congress of Ocean (WCO-2025)**WCO 01: Ocean Economy and Maritime Law**

Speakers' Profiles

Dr. Feier Chen, Dr. Hermann Held, Dr. Moshe Agami, Ms. Qingliu Ren, Dr. Salvatore Vitale, Mr. Nobuto Yamaguchi, Mr. George Ossipov, Ms. Ramat Jalloh, Dr. Hari Narayan Veettath Brelviv

WCO 02: Ocean Engineering, Science and Technologies

Speakers' Profiles

Dr. Victor Dyomin, Ts. Dr. Captain Manivannan Subramaniam, Mr. Earl J. Dodd, Dr. Yael Edelman-Furstenberg, Dr. Dariusz Popielarczyk, Dr. Natascha Oppelt, Mr. Yoshinari Oguro, Dr. Kun Yang, Dr. Tomasz Templin, Dr. Céphas Xuma, Dr. Marilyn J. Bruno

WCO 03: Ocean Energy Development and Utilization

Speakers' Profiles

Mr. James H Anderson, Dr. Yanbin Wang, Mr. Andy Billcliff, Dr. Jinglong Yao, Mrs. Cindy Wilcox

WCO 04: Smart Port, Green Shipping

Speakers' Profiles

Mr. Olli Soininen, Mr. Guangrong Zou, Mr. Airam Díaz, Mr. Stathis Anagnostou, Captain Yoss Leclerc, Mr. Dana A. Goward

WCO 05: Aquaculture and Fisheries

Speakers' Profiles

Mr. Paolo Bray, Dr. Weixin Ding, Mr. Marcel Franz, Dr. Bosiljka Mustać, Mrs. Ana Olivert

WCO 06: Ocean Management and Environment Protection

Speakers' Profiles

Dr. Michikazu Kojima, Dr. Xin Liu, Ms. Chika Sato, Mr. Nigel Bowen-Morris, Mr. Chenxi Sun

The 11th World Energy Congress (WEC-2025)**WEC 01: Latest Research and Development on Energy and Its Application**

Speakers' Profiles

Mr. David Robert Cavanagh, Dr. Juergen Knorr, Dr. Pascal Briois, Dr. Jun Pan, Dr. Jianxu Zhou, Dr. Kilyong Choi, Dr. Sergey N. Martyushov

WEC 02: Global Energy Policies, Market and Future Trends

Speakers' Profiles

Dr. Ervin Tal-Gutelmacher, Dr. Izabela Barbara Sztangret, Dr. Kornelia Przedworska, Dr. Somayeh Mohammady, Dr. İbrahim Gurer

The 12th Annual World Congress of Food and Nutrition (WCFN-2025)**WCFN 01: Research and Development for Food and Nutrition Science**

Speakers' Profiles

Dr. Toshio Inui, Dr. Satoshi Matsuda, Mr. Kento Hamada, Dr. Sevim Kandis Sever, Dr. Hanaa Ahmed Abokoura, Dr. Ekkehart Paditz, Dr. Nur Suhaidah Binti Sukor

The 6th International Congress of Environment (ICE-2025)**ICE 01: Hot Topics in Environment Field**

Speakers' Profiles

Dr. Tinatin Doolotkeldieva, Dr. Jungyu Park, Dr. Styliani Sofianopoulou, Dr. Vassilis Dedoussis, Dr. Arminda do Paco, Dr. Margarida Catalao-Lopes, Dr. Ruili Zhao, Dr. Joaquim Gois, Dr. Antonio Fiuza, Mr. Craig Applegath, Dr. Hulya Coskun, Dr. Xiaowu Huang, Dr. Elie Fereche Itoba-Tombo

ICE 02: Video Forum

Speakers' Profiles

Dr. Abderrahim Benmoussat, Dr. Andrii Polyvianchuk

The 9th Annual World Congress of Smart Materials (WCSM-2025) & The 3rd Smart Manufacturing Forum (SMF-2025)

WCSM 01: Smart Materials Structures, Engineering and Manufacturing

Speakers' Profiles

Dr. Iryna Bashynska, Dr. Stuart Wiesner, Dr. Victor Eduardo Comparan Padilla, Dr. Younseon Wang,
Dr. Gong Zhang, Dr. Yu Zheng, Dr. Anil Kumar Pabby, Mr. David Wortley, Dr. G. D. Ransinchung R. N

WCSM 02: Smart Optical, Electronic and Magnetic Materials

Speakers' Profiles

Dr. Cecil Bruce-Boye, Dr. Seiji Fukushima, Dr. Wen Huang, Dr. Tsang-Ling Sheu, Dr. Sergiu Lionte,
Dr. Claude R Phipps, Dr. Chi-Hsiang Hsieh

WCSM 03: Future Trends and Applications of Smart Materials

Speakers' Profiles

Dr. Raj Das, Dr. Didier Devaux, Dr. Paweł Pasierb, Mr. Manoj Dalaya, Dr. Tudor Oarga,
Dr. Bogdan Varga, Dr. Dan Moldovanu, Dr. Nicolae Cordoș, Dr. Horațiu Cărașan, Dr. Gabriel Prunean,
Dr. Nicolae Vlad

The 3rd World Congress of AI Industry (WCAI-2025)

WCAI 01: AI Industry

Speakers' Profiles

Dr. Hsing-Yu Tuan, Dr. Michael Short, Dr. Tino Krüger-Basjmeleh, Dr. Elena Troubitsyna,
Dr. Martin Klimo, Dr. Henry Hexmoor, Dr. Victor Dyomin, Dr. Lucia Knapcikova, Dr. Tiffanie Zaugg,
Dr. Shenbo Zhou

Posters & Papers

Dr. Ekkehart Paditz, Dr. Tiziana Pepe, Dr. Erland G. Kolomyts, Dr. Andrii Polyvianchuk,
Ms. Katarzyna Kozubal, Ms. Weronika Gura, Ms. Patrycja Gaćkowska-Gondek,
Dr. Katarzyna Cholewa-Kowalska, Mr. Jun-Yu Wang

Event Schedule

Time: November 11-13, 2025

Venue: Grand Prince Hotel Osaka Bay, Japan

Date	Time	Program	Place
November 10, 2025 (Monday)	09:00-21:00	Registration	Lobby, First Floor
November 11, 2025 (Tuesday)	09:00-09:10	Opening Ceremony	Sapphire & Crystal, Second Floor
	09:10-11:55	Keynote Forum	
	12:00-13:00	Lunch	Prince-AB, Third Floor
	13:30-16:50	GCKE 01: Tech Innovation & Digital Transformation	Yamato A, Fifth Floor
	13:30-16:45	GCKE 02: Smart Cities, Geography and Urban Economics	Yamato B, Fifth Floor
	13:30-16:45	WEC 01: Latest Research and Development on Energy and Its Application	Kamo, Fifth Floor
	13:30-17:10	WCE 01: Higher Education Forum (I)	Katsura, Fifth Floor
	13:30-17:35	WCO 01: Ocean Economy and Maritime Law	Yoshino, Fifth Floor
	13:30-17:35	WCSM 01: Smart Materials Structures, Engineering and Manufacturing	Tatsuta, Fifth Floor
	15:15-15:30	Coffee Break	Lounge Area, Fifth Floor
	18:30-20:30	Welcome Banquet	Prince-AB, Third Floor
November 12, 2025 (Wednesday)	08:30-11:50	GCKE 03: Artificial Intelligence, Industrial, Manufacturing Engineering	Yamato A, Fifth Floor
	08:30-11:45	GCKE 04: Economic Governance & Sustainable Development	Yamato B, Fifth Floor
	08:30-11:50	WCE 02: Disruptive Edu-Tech Forum	Katsura, Fifth Floor
	08:30-11:20	WCE 03: Medical and Health Education Forum	Kamo, Fifth Floor
	08:30-12:30	WCO 02: Ocean Engineering, Science and Technologies	Yoshino, Fifth Floor
	08:30-11:45	WCSM 02: Smart Optical, Electronic and Magnetic Materials	Tatsuta, Fifth Floor
	10:15-10:30	Coffee Break	Lounge Area, Fifth Floor
	12:00-13:00	Lunch	Sapphire & Crystal, Second Floor

Event Schedule

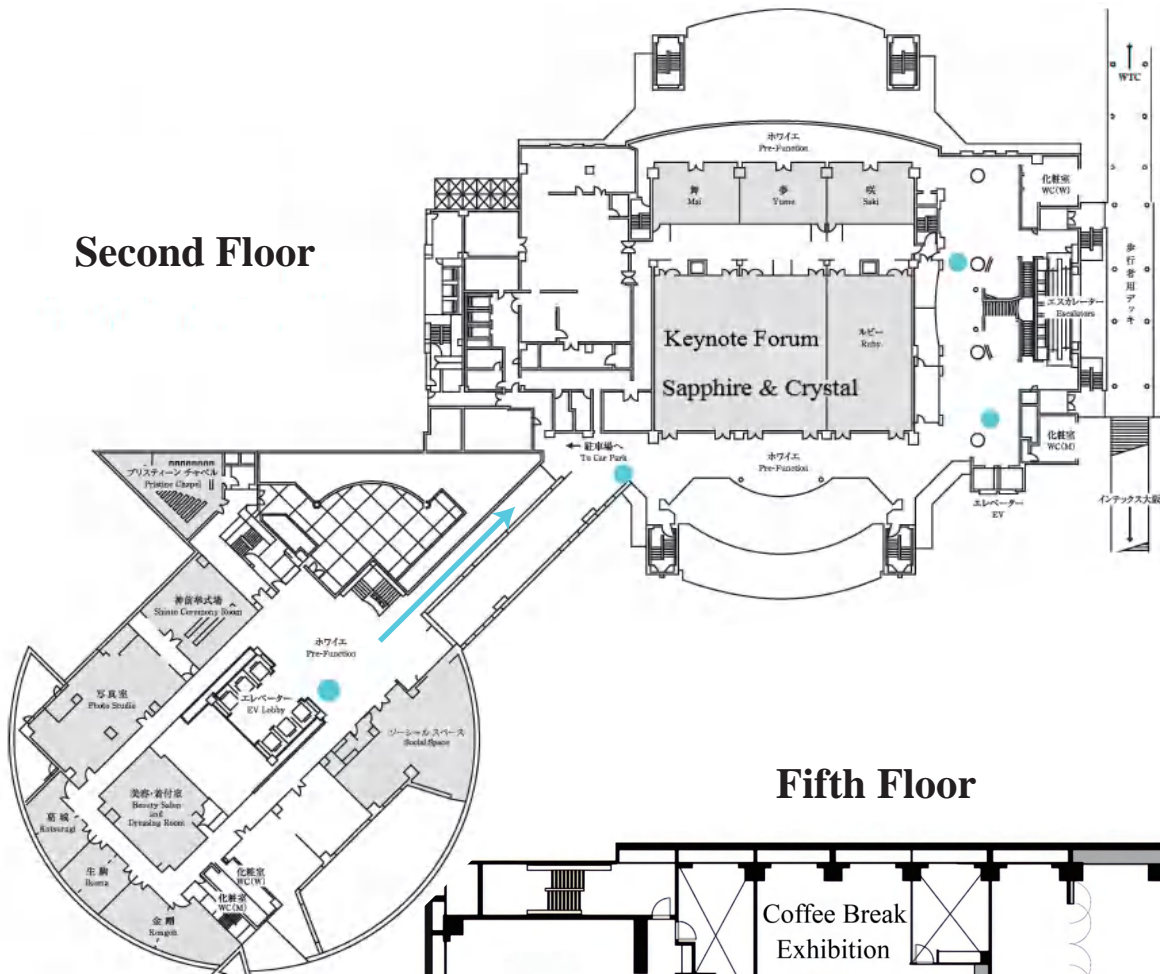
Time: November 11-13, 2025

Venue: Grand Prince Hotel Osaka Bay, Japan

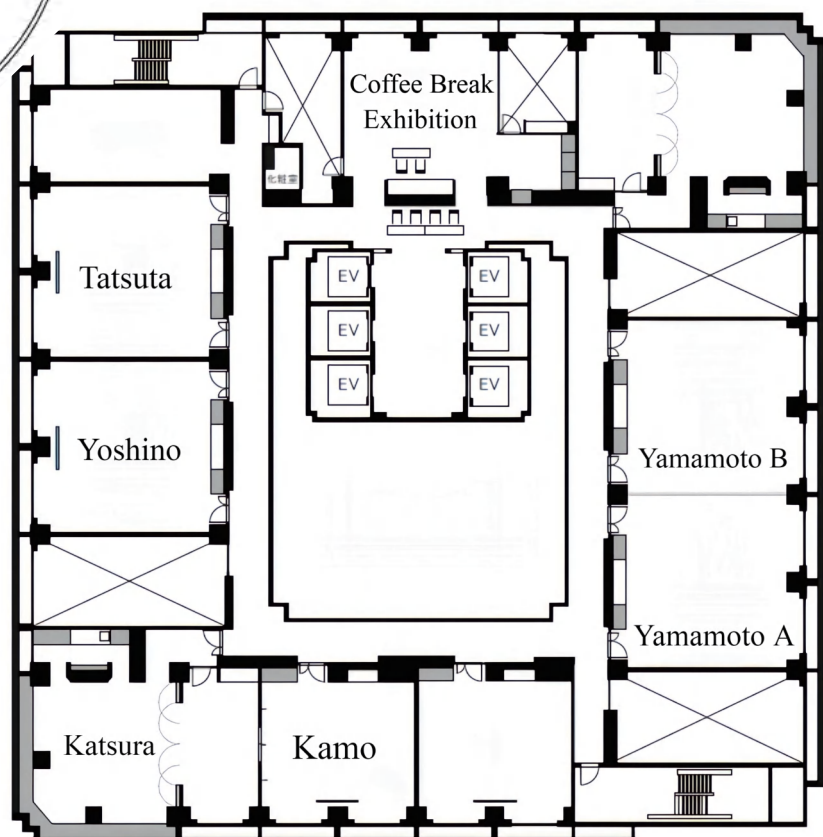
Date	Time	Program	Place
November 12, 2025 (Wednesday)	13:30-16:20	GCKE 05: Energy, Environment and Climate	Yamato A, Fifth Floor
	13:30-17:10	WCE 04: Higher Education Forum (II)	Yamato B, Fifth Floor
	13:30-16:45	WCFN 01: Research and Development for Food and Nutrition Science	Kamo, Fifth Floor
	13:30-18:10	ICE 01: Hot Topics in Environment Field	Katsura, Fifth Floor
	13:30-15:15	WCO 03: Ocean Energy Development and Utilization	Yoshino, Fifth Floor
	15:30-17:35	WCO 04: Smart Port, Green Shipping	
	13:30-17:10	WCAI 01: AI Industry	Tatsuta, Fifth Floor
	15:15-15:30	Coffee Break	Lounge Area, Fifth Floor
November 13, 2025 (Thursday)	08:30-11:20	GCKE 06: Management of Technology Education and Research	Yamato A, Fifth Floor
	08:30-11:45	WCE 05: STEAM Education Forum	Yamato B, Fifth Floor
	08:30-10:15	WCO 05: Aquaculture and Fisheries	Yoshino, Fifth Floor
	10:30-12:15	WCO 06: Ocean Management and Environment Protection	
	08:30-10:15	WCE 06: Humanities and Social Science Education Forum	Kamo, Fifth Floor
	10:30-12:15	WEC 02: Global Energy Policies, Market and Future Trends	
	08:30-11:45	WCSM 03: Future Trends and Applications of Smart Materials	Tatsuta, Fifth Floor
	10:15-10:30	Coffee Break	Lounge Area, Fifth Floor
	12:00-13:00	Lunch	Sapphire & Crystal, Second Floor
November 11-13, 2025	09:00-17:30	Posters & Exhibition	Lounge Area, Fifth Floor

Floor Plan

Second Floor



Fifth Floor



Program

Time: November 11-13, 2025

Venue: Grand Prince Hotel Osaka Bay, Japan

Registration

Time: 09:00-21:00, November 10, 2025 (Monday); **Place:** Lobby, First Floor

Opening Ceremony

Time: 09:00-09:10, November 11, 2025 (Tuesday); **Place:** Sapphire & Crystal, Second Floor

Keynote Forum

Time: 09:10-11:55, November 11, 2025 (Tuesday); **Place:** Sapphire & Crystal, Second Floor

Moderator **Dr. James Wang**, Professor and Director of the eVTOL Research & Innovation Centre, Nanyang Technological University, Singapore

09:10-09:15 **Moderator's Introduction**

09:15-09:35 **Title:** Global Private Sector Leadership for the Sustainable Blue Economy
Mr. Paul Holthus, Founding President and CEO, World Ocean Council, USA

09:35-09:55 **Title:** Ocean Fronts and Sustainable Fishery
Prof. Sergei Prants, Member of the Russian Academy of Sciences; Head of Department of the Ocean and Atmosphere Physics, Pacific Oceanological Institute of the Russian Academy of Sciences, Russia

09:55-10:15 **Title:** Engineering Metal-Organic Frameworks for Energy Applications
Dr. Qiang Xu, Chair Professor, Southern University of Science and Technology, China; Fellow of Engineering Academy of Japan

10:15-10:35 **Title:** Future Applications of AI and Smart Materials in Aircraft Design
Dr. James Wang, Professor and Director of the eVTOL Research & Innovation Centre, Nanyang Technological University, Singapore

10:35-10:55 **Title:** The Academic Teacher as Change Agent in the Age of AI
Prof. Dr. Jacqueline E van Muijlwijk-Koezen, Chief Education Officer (Vice-Rector Education), Vrije University Amsterdam, the Netherlands

10:55-11:15 **Title:** Digital Transformation in Higher Education: Maximizing Student Success
Dr. Julie Furst-Bowe, Provost and Academic Vice President, Georgian Court University, USA

11:15-11:35 **Title:** Remarks on the Importance of Knowledge About the Inhabitants of Transformed Urban Organisms in "Smart City" Projects
Dr. Jan Kazmierczak, Professor, Faculty of Organization and Management, Silesian University of Technology, Poland

11:35-11:55 **Title:** Advancing Electronics Using Graphene
Dr. Simon Thomas, Founder and CEO, Paragraf, UK; Fellow of Royal Academy of Engineering
Dr. Hugh Glass, Product Manager, Paragraf, UK

The 10th Annual Global Congress of Knowledge Economy (GCKE-2025)

GCKE 01: Tech Innovation & Digital Transformation

Time: 13:30-16:50, November 11, 2025 (Tuesday); **Place:** Yamato A, Fifth Floor

Chair **Dr. Mark van der Pas**, Managing Director, Uffective; Lecturer, Maastricht University, the Netherlands

Co-chair **Dr. Nicolaj Hannesbo Petersen**, Researcher, Incubator & Project Manager, UCL University College, Denmark

13:30-13:35 **Chair's Introduction**

13:35-13:55 **Title:** Artificial General Intelligence, The End of Work, And the Gamification of Life
Dr. Leslie Paul Thiele, Distinguished Professor, University of Florida, USA

13:55-14:15 **Title:** Artificial Intelligence, Robotics and Their Impact of the Future Labor Market
Dr. James R. Stone III, Director, National Research Center for Career & Technical Education at the SREB, USA

14:15-14:35 **Title:** The Neural Web: Harnessing IoE and Neuromarketing to Revolutionize Modern Marketing Strategies
Dr. David J. Smith, Professor of Management and Associate Dean, Rinker School of Business, Palm Beach Atlantic University, USA

14:35-14:55 **Title:** Challenges and Opportunities in Technology Transfer: A Review
Dr. Nikolaos Milonas, Professor Emeritus, National and Kapodistrian University of Athens, Greece

14:55-15:15 **Title:** Strategic Management and Business Model Innovation: Navigating the Knowledge Economy Through Socio-Cognitive Innovation with the Blank Business Model Canvas
Dr. Nicolaj Hannesbo Petersen, Researcher, Incubator & Project Manager, UCL University College, Denmark
Editor-in-Chief of the International Journal of Strategic Management and Innovation

15:15-15:30 **Coffee Break**

15:30-15:50 **Title:** Project Management on Digital and Sustainable Organizational Transformation
Dr. Ioana Filipas, Associate Professor, University of Strasbourg, France
Dr. Francois Marmier, Associate Professor, University of Strasbourg, France

15:50-16:10 **Title:** Less Is More: A Practitioner's Guide to Maximising IT Investments
Dr. Mark van der Pas, Managing Director, Uffective; Lecturer, Maastricht University, the Netherlands

16:10-16:30 **Title:** Social Media Shopping Activities, Emotions, and Loneliness on Well-being in South Africa
Dr. Yvonne Kabeya Saini, Senior Lecturer, University of Witwatersrand, South Africa

16:30-16:50 **Title:** Towards a Robust and Integrated Data Strategy for a University of Technology
Dr. Sally Dzingwa, Institutional Registrar, Central University of Technology Free State, South Africa

GCKE 02: Smart Cities, Geography and Urban Economics

Time: 13:30-16:45, November 11, 2025 (Tuesday); **Place:** Yamato B, Fifth Floor

Chair **Dr. Andreas Koch**, Professor and Co-Director of the Center for Ethics and Poverty Research, University of Salzburg, Austria

Co-chair **Dr. Jan Veuger**, CEO, CORPORATE Real Estate Management, the Netherlands

13:30-13:35 **Chair's Introduction**

13:35-14:00 **Title:** How Can We Estimate the Market Potential of Sustainable Tourism?
Dr. Yaron Ergas, Director of Research and Statistics, Ministry of Tourism, Israel

14:00-14:25 **Title:** Elements of European Law for a Legal Modelling of Urban Digital Twins
Dr. Valentina Colcelli, Senior Researcher, Italian National Research Council (CNR), Italy

14:25-14:50 **Title:** Adaptive Reuse of Buildings: Smart Systems & Policy
Mr. Manoj Dalaya, Co-President, KGD Architecture, USA

14:50-15:15 **Title:** The Local Matters in Urban Economics
Dr. Andreas Koch, Professor and Co-Director of the Center for Ethics and Poverty Research, University of Salzburg, Austria

15:15-15:30 **Coffee Break**

15:30-15:55 **Title:** Urban Facility Management: A Quantitative and Quality Study
Dr. Jan Veuger, CEO, CORPORATE Real Estate Management, the Netherlands

15:55-16:20 **Title:** Applying Complexity Theory to Understanding Small Business Grant Programme Impact in Syria
Mr. Andrew Gardiner, Independent Researcher, Former International Committee of the Red Cross Delegate, Australia
Dr. David de Wild, Independent Aid & Development Adviser, De Wild Consulting, Switzerland

16:20-16:45 **Title:** Implementing Smart Sustainable Cities in Saudi Arabia: A Framework for Citizens' Participation Towards SAUDI VISION 2030
Dr. Abood K. Alamoudi, Assistant Professor, Imam Abdulrahman Bin Faisal University, Saudi Arabia

GCKE 03: Artificial Intelligence, Industrial, Manufacturing Engineering

Time: 08:30-11:50, November 12, 2025 (Wednesday); **Place:** Yamato A, Fifth Floor

Chairs	Dr. Ibrahim Abdullahi , Data Intelligence Lead, John G Russell (Transport) Limited, UK Dr. Hyun-A Park , Assistant Professor, Honam University, South Korea
08:30-08:35	Chair's Introduction
08:35-08:55	Title: Digital Twins as Enablers for Intelligent and Sustainable Control in Manufacturing Systems Dr. Ute Dietrich , Professor, HTW Berlin, University of Applied Science, Germany
08:55-09:15	Title: Supply Chain Disruptions: Firm-Level Evidence from the 2011 Tohoku Earthquake Dr. Lucas Zimmer , Permanent Professor, INSEEC Grande Ecole, France
09:15-09:35	Title: Data-Driven Digital Twins: AI-Enabled Asset Optimization in Transport and Manufacturing Systems Dr. Ibrahim Abdullahi , Data Intelligence Lead, John G Russell (Transport) Limited, UK
09:35-09:55	Title: Enhancing Urban Circular Economy Efficiency: Integration of Artificial Neural Networks with Fuzzy Dynamic Network Slack-Based Measure Dr. Felix T. S. Chan , Chair Professor and Vice Dean, Macau University of Science and Technology, Macao, China
09:55-10:15	Title: Challenges of Automatic Speech Recognition Dr. Irina Illina , Associate Professor, Lorraine University, LORIA-INRIA, CNRS, France
10:15-10:30	Coffee Break
10:30-10:50	Title: Clalit AI – the C-Pi Platform for Proactive and Preventive Interventions Dr. Doron Netzer , Professor, Division of Community Medical Services, Clalit Health Services, Israel
10:50-11:10	Title: Leveraging DevOps Tools and AI to Enhance Agile Project Delivery Dr. Deivison Feitosa Silva , Researcher, UNINOVE – University Nine of July, Brazil
11:10-11:30	Title: The Evolution of Combined Arms Warfare in the AI Era: Technological Empowerment, Tactical Adaptation, And Insights from the Ukraine Conflict Dr. Ji-Jen Hwang , Associate Professor, Defense and Security Program, Rabdan Academy, UAE
11:30-11:50	Title: Securing Tomorrow: Human-Centric Technologies Toward 5 th Industrial Revolution Era Dr. Hyun-A Park , Assistant Professor, Honam University, South Korea

GCKE 04: Economic Governance & Sustainable Development

Time: 08:30-11:45, November 12, 2025 (Wednesday); **Place:** Yamato B, Fifth Floor

Chair	Dr. Arthur Charpentier , Professor, University of Quebec in Montreal, Canada
Co-chair	Dr. Jianghong Liu , Senior Lecturer in Economics and Finance, London Metropolitan University, UK
08:30-08:35	Chair's Introduction
08:35-09:00	Title: Do Training Programs Improve Awareness of Sustainable Finance? Dr. Souad Lajili Jarjir , Professor, University of Lorraine, France
09:00-09:25	Title: Fairness and Insurance: Disentangling Illegitimate and Indirect Discriminations Dr. Arthur Charpentier , Professor, University of Quebec in Montreal, Canada
09:25-09:50	Title: Strategic Financial Architecture Underpinning the Global Digital Economy's Next Frontier Mr. Mathieu Sollier , CEO & Founder, Strategic Metrics Asset Management, Switzerland
09:50-10:15	Title: The Role of Fintech from Digital Savings to Reduce Income Inequality and Enhance Economic Development in Emerging and Developing Asia (EMDA) Countries Dr. Jianghong Liu , Senior Lecturer in Economics and Finance, London Metropolitan University, UK
10:15-10:30	Coffee Break
10:30-10:55	Title: The European Union's Approach to Implementing a Sustainable Finance Framework Dr. Paulo Alves Pardal , Professor, University of Lisbon, Portugal
10:55-11:20	Title: The Role of Sustainable Transportation in the Knowledge Age: Case of Ride-Hailing Service Dr. Amna Javed , Senior Lecturer, Japan Advanced Institute of Science and Technology, Japan
11:20-11:45	Title: International Climate Finance Flows into India (2015-2021) and Required Investment Dr. Anjali Prashad , Assistant Professor, University of Delhi, India

GCKE 05: Energy, Environment and Climate

Time: 13:30-16:20, November 12, 2025 (Wednesday); **Place:** Yamato A, Fifth Floor

Chair	Mr. Michael Storch , CEO, Mangold Photovoltaik GmbH, Germany
Co-chair	Ind. Ing. Stefano Ambrosini , CEO, Waste Management Specialist s.r.l., Italy
13:30-13:35	Chair's Introduction
13:35-14:00	Title: Energy Choices and Consequences-2025 Update Dr. Harold L. Dodds , IBM Professor of Engineering and Department Head Emeritus, University of Tennessee Nuclear Engineering Department (UTNE), USA
14:00-14:25	Title: Case Study: Mata de São João, Brazil. From 0% to 70% Separate Door-to-Door Waste Collection in Only Three Months Ind. Ing. Stefano Ambrosini , CEO, Waste Management Specialist s.r.l., Italy
14:25-14:50	Title: Innovations in Photovoltaics: The Future of Energy Generation with Tandem Solar Cells Mr. Michael Storch , CEO, Mangold Photovoltaik GmbH, Germany
14:50-15:15	Title: Connecting the Dots: Climate Adaptation Lessons from the Frontlines of Innovation and Hope Mr. Craig Applegath , Partner, DIALOG, Canada
15:15-15:30	Coffee Break
15:30-15:55	Title: Leveraging Advanced Statistical Methods to Optimize Renewable Energy Shares in Hybrid Systems Under Climate Variability: A Case Study of PV and Wind Power in Europe Dr. Bernard Twarog , Assistant Professor, Cracow University of Technology, Poland
15:55-16:20	Title: Integrated Renewable Energy Solutions in Namibia: Leveraging Green Hydrogen, Biomass Pellets, And Organic Waste for Sustainable Energy Transition Dr. Natangue Heita Shafudah , Senior Lecturer, University of Namibia, Namibia

GCKE 06: Management of Technology Education and Research

Time: 08:30-11:20, November 13, 2025 (Thursday); **Place:** Yamato A, Fifth Floor

Chair	Dr. Gilbert Paquette , Emeritus Professor, TELUQ University, Canada
Co-chair	Dr. Syh-Jong Jang , Distinguished Professor, Center for General Education, Asia University, Taiwan
08:30-08:35	Chair's Introduction
08:35-09:00	Title: Teacher-Student Interactions and Learning Outcomes in a Distance Learning Environment: A Forty-Five-Year Journey from Theory to Practice Dr. Baruch Offir , Professor, Bar-Ilan University, Israel
09:00-09:25	Title: ChatGPT on University Instructors' Profession Development and Students' Self-Regulated Learning Dr. Syh-Jong Jang , Distinguished Professor, Center for General Education, Asia University, Taiwan

- 09:25-09:50 **Title:** Knowledge Management for Technology-based Education Planning and Delivery in the Artificial Intelligence Era
Dr. Gilbert Paquette, Emeritus Professor, TELUQ University, Canada
- 09:50-10:15 **Title:** Using Technology to Share Story of Place
Dr. Clair Andersen, Associate Professor, Higher Education Advisor, University of Tasmania, Australia
- 10:15-10:30 **Coffee Break**
- 10:30-10:55 **Title:** A Comprehensive Framework of the Idea-Marathon System (IMS) for Creativity Education and Training: Applications Across Business, Industry, Innovation, Higher Education, K-12, Early Childhood, And Senior Well-being
Dr. Takeo Higuchi, Executive Director, Idea-Marathon System Institute, Japan
- 10:55-11:20 **Title:** Preservice Teachers Learning to Teach with Artificial Intelligence and Metacognitive Strategies
Dr. Rupam Saran, Professor, Medgar Evers College, The City University of New York, USA

GCKE 07: Video Forum

- 01 **Title:** Consistent Conjectural Variations Equilibrium for a Bilevel Human Migration Model
Dr. Viacheslav Kalashnikov, Professor and Researcher, Autonomous University of Nuevo Leon, Mexico
Co-authors: Daniela Osorio-Gonzalez, Jose Guadalupe Flores-Muniz, and Nataliya Kalashnykova
- 02 **Title:** The Contribution of GIS to the Sustainable Management of Water Resources in Algeria
Ms. Lynda Hamadene, University of Science and Technology Houari Boumediene, Algeria
- 03 **Title:** Multi-level Smart Charging and Grid Balancing
Mr. Luis Pisco, R&D Engineer, EDP R&D, Portugal
- 04 **Title:** The Impact of the Development of the Digital Economy on Biodemographic Indicators of Human Development in the World System in the Global Knowledge Economy
Dr. Anatoly Davidovsky, Associate Professor, Belarusian State University of Informatics and Radio Electronics, Russia

The 7th World Congress of Education (WCE-2025)

WCE 01: Higher Education Forum (I)

Time: 13:30-17:10, November 11, 2025 (Tuesday); **Place:** Katsura, Fifth Floor

Chair	Dr. Julie Furst-Bowe , Provost and Academic Vice President, Georgian Court University, USA
Co-chair	Dr. Carlos A. V. Costa , Professor Emeritus, Faculty of Engineering, University of Porto, Portugal
13:30-13:35	Chair's Introduction
13:35-13:55	Title: Drawing upon Multidisciplinary and Multi-sector Teams to Enhance Assessment Processes in Higher Education Dr. Elaine Chapman , Deputy Head, University of Western Australia, Australia
13:55-14:15	Title: The Maladjustment Dynamics of Teachers Commonly Seen in Modern Japan: From the Perspectives of Psychoanalysis, Group Analysis, and Mentalization Dr. Ohashi Yoshie , Professor, Kyoto Bunkyo University, Japan
14:15-14:35	Title: The Role of the National University in a New Era Dr. Hassan Al-Derham , Past President, Qatar University, Qatar
14:35-14:55	Title: Embedding Micro-Credentials in Educational Programs Dr. Julie Furst-Bowe , Provost and Academic Vice President, Georgian Court University, USA
14:55-15:15	Title: An Ethnographic Study of Foreign Language Teachers' Professional Anxiety and Identity Adaptation in the Age of AI in Higher Education Dr. Yiping Wu , Associate Professor, School of Foreign Languages, Zhejiang Gongshang University, China
15:15-15:30	Coffee Break
15:30-15:50	Title: The Contributory Model of Intercultural Competence: A Psychosocial Approach Dr. Peyman Ghassemi Pour Sabet , Lecturer, The University of Western Australia, Australia
15:50-16:10	Title: Sustainability and Digital Advancement in Maritime Transportation – A Proposal to Future Proof Maritime Academia Ts. Dr. Capt. Manivannan Subramaniam , Chief Executive, Akademi Laut Malaysia, Malaysia
16:10-16:30	Title: Engineering Epistemology Revisited: Embedding Sustainable Development Dr. Carlos A. V. Costa , Professor Emeritus, Faculty of Engineering, University of Porto, Portugal
16:30-16:50	Title: Integrating Design Thinking and Arts in Education: Skills, Inclusion, And Pedagogical Transformation Dr. Ana Thudichum Vasconcelos , Professor, University of Lisbon, Portugal

16:50-17:10 **Title:** Activating Broca's and Wernicke's Areas to Facilitate the Transition from Pre-Intermediate to Intermediate English Proficiency
Dr. Mehmet Deniz Demircioğlu, Lecturer, Bursa Uludağ University, Turkey

WCE 02: Disruptive Edu-Tech Forum

Time: 08:30-11:50, November 12, 2025 (Wednesday); **Place:** Katsura, Fifth Floor

Chair **Dr. Jean-Eric Pelet**, Professor, KMCMS, France

Co-chair **Dr. Marcia J. Mackey**, Professor, Central Michigan University, USA

08:30-08:35 **Chair's Introduction**

08:35-08:55 **Title:** Emotionally Intelligent Educational AI and Future Learning Support: Building Equal Relationships with Artifacts

Dr. Kaoru Sumi, Professor, Future University Hakodate, Japan

08:55-09:15 **Title:** Beyond the Pandemic Pivot: An Agile Framework for Pedagogy in Times of Crises

Dr. William T. Tarimo, Assistant Professor, Connecticut College, USA

09:15-09:35 **Title:** GenAI Benefits VS Hidden Ecological Costs: An Empirical Study of GenAI Adoption Among Students

Dr. Jean-Eric Pelet, Professor, KMCMS, France

09:35-09:55 **Title:** Designing Ed Tech for Equity–Developing Creative and Agile Thinkers for Today and the Future

Dr. Dena Gilby, Professor, Endicott College, USA

09:55-10:15 **Title:** Online Education: Designing Your First Online Course? Success Strategies for Beginners

Dr. David Okoth, Instructional Design and Technology Specialist, University of Northern Colorado, USA

10:15-10:30 **Coffee Break**

10:30-10:50 **Title:** Higher Education in the Age of Artificial Intelligence: Challenges, Opportunities, and Implications for Social Justice

Dr. Marcia J. Mackey, Professor, Central Michigan University, USA

10:50-11:10 **Title:** Scenario-Based Assessment in the Age of Generative AI: Making Space in the Education Market for Alternative Assessment Paradigms

Dr. John Sabatini, Distinguished Research Professor, University of Memphis, USA

11:10-11:30 **Title:** Educational Micro-Credentials in Integration and Deployment of Telemedicine

Dr. Martin Žagar, Professor, RIT Croatia, Croatia

11:30-11:50 **Title:** Rethinking Education in the Age of AI: Cultivating Cognitive Flexibility and AI Literacy in High School Education

Dr. Jing Song, Academic Principal, Springboard International Bilingual School, China

WCE 03: Medical and Health Education Forum

Time: 08:30-11:20, November 12, 2025 (Wednesday); **Place:** Kamo, Fifth Floor

Chair	Dr. Lacroix Valérie , Professor, Saint-Luc University Hospital, Belgium
08:30-08:35	Chair's Introduction
08:35-09:00	Title: The Importance of Patient Communication in the Education of Medical Students and the Use of the TOM Application Dr. Grazyna Nowak-Starz , Professor, Jan Kochanowski University in Kielce, Poland
09:00-09:25	Title: Enhancing Junior Surgeons Proficiency with Evolving Surgical Technologies Dr. Lacroix Valérie , Professor, Saint-Luc University Hospital, Belgium
09:25-09:50	Title: Medical Simulation in Preparation for Medical Profession Dr. Dorota Rębak , Associate Professor, Jan Kochanowski University in Kielce, Poland
09:50-10:15	Title: Transforming the World of Medical Devices and Healthcare Solutions Using Industry 4.0 Technologies Dr. Prashant Jindal , Professor, Panjab University, India
10:15-10:30	Coffee Break
10:30-10:55	Title: Health Behaviors of Adolescents Resulting from Preferred Lifestyles – A Report from Research Among Secondary School Youth in the Świętokrzyskie Region in Poland Dr. Mariola Wojciechowska , Associate Professor, Jan Kochanowski University in Kielce, Poland
10:55-11:20	Title: Effect of COVID-19 Pandemic on Health Behaviors of Students of Medical Specialties from the Aspect of Psychological Support Based on a Polish Example Dr. Agnieszka Strzelecka , Associate Professor, Jan Kochanowski University in Kielce, Poland

WCE 04: Higher Education Forum (II)

Time: 13:30-17:10, November 12, 2025 (Wednesday); **Place:** Yamato B, Fifth Floor

Chair	Prof. Dr. Jacqueline E. van Muijlwijk-Koezen , Chief Education Officer (Vice-Rector Education), Vrije University Amsterdam, the Netherlands
Co-chair	Dr. Sue Walker , Professor, Southern Cross University, Australia
13:30-13:35	Chair's Introduction
13:35-13:55	Title: Global Challenges, Local Lessons: Australian Pedagogical Innovation, the ADEPT Framework for Enabling Pedagogy, And Curriculum Development for Widening University Participation Dr. Jennifer Stokes , Associate Professor, University of South Australia & Adelaide University, Australia

- 13:55-14:15 **Title:** Designing for Dialogue: How Digital Environments Shape Trust, Safety, And Quality in Peer Feedback in Higher Education
Prof. Dr. Jacqueline E. van Muijlwijk-Koezen, Chief Education Officer (Vice-rector Education), Vrije University Amsterdam, the Netherlands
- 14:15-14:35 **Title:** A New Academic Frontier: Responding to Paradigm Shifts in Global Higher Education
Dr. Anita Bledsoe-Gardner, Dean, Johnson C. Smith University, USA
- 14:35-14:55 **Title:** Teaching about/to/for Diversity: Exploring a New Pedagogy of Teacher Education
Dr. Sue Walker, Professor, Southern Cross University, Australia
- 14:55-15:15 **Title:** Ethical Issues in Participatory Research and Co-design in Education
Dr. Jacqueline J. Schenk, Associate Professor, Erasmus University Rotterdam, the Netherlands
- 15:15-15:30 **Coffee Break**
- 15:30-15:50 **Title:** Supporting Teachers to Personalise Education for Autistic Children in an Inclusive Setting
Dr. Stefanija Alisauskiene, Professor, Vytautas Magnus University, Lithuania
Dr. Julija Grigenaite, Assistant Professor, Vytautas Magnus University, Lithuania
- 15:50-16:10 **Title:** The Trends of Training Model for Cultivating Talents in Art and Design in AI Era
Dr. Qing Wu, Professor, Wuhan University of Science and Technology, China
- 16:10-16:30 **Title:** How to Make School Development Projects Sustainable. Insights from 15 Different Attempts to Improve Practices with and without Results
Dr. Ulla Damber, Associate Professor, Mid Sweden University, Sweden
- 16:30-16:50 **Title:** Translation, Foreign Language Acquisition and Transculturality: The Japanese Experience of Italophone Writer Dacia Maraini
Prof. Dr. Dagmar Reichardt, Professor, Latvian Academy of Culture, Latvia
- 16:50-17:10 **Title:** Modernizing STEM Education: Connecting STEM Challenges to Future Workforce Pathways
Dr. Julie Cwikla, Distinguished Professor & Director, University of Southern Mississippi, USA

WCE 05: STEAM Education Forum

Time: 08:30-11:45, November 13, 2025 (Thursday); **Place:** Yamato B, Fifth Floor

Chair **Dr. Richard Cangro**, Professor and Director of Music Education, Western Illinois University, USA

08:30-08:35 **Chair's Introduction**

- 08:35-09:00 **Title:** Revolutionizing Education: The Power of Drama-Based Pedagogy in Engaging 21st-Century Learners
Dr. William Yip, Director, Beijing Jheng Drama & Education Research Institute, China; Board Member & Deputy Secretary-General, Beijing Jheng Charitable Foundation
- 09:00-09:25 **Title:** Communicating in, about, and through Music: Language Arts and Music Education
Dr. Richard Cangro, Professor and Director of Music Education, Western Illinois University, USA
- 09:25-09:50 **Title:** Walk Between the Trees and Talk the Change: Trainers Insights on Climate Change Education in Forest Schools
Dr. Ofira Ayalon, Professor, University of Haifa, Israel
- 09:50-10:15 **Title:** Project-Based Learning in a Brewing-Oriented Curriculum: A 3-Year Pedagogical Journey
Dr. Vanina Lorenzi, Associate Professor, University of Corsica Institute of Technology, France
Dr. Christine Chancogne, Lecturer, University of Corsica Institute of Technology, France
- 10:15-10:30 **Coffee Break**
- 10:30-10:55 **Title:** From STEM to STEAM: The Importance of Arts in Technical Education
Dr. Peer Mohideen Sathikh, Associate Professor, School of Art, Design and Media, Nanyang Technological University, Singapore
- 10:55-11:20 **Title:** Making Sustainable Development Practices Real for Students: An Interdisciplinary Project-based Approach
Dr. Santa Gregorj-Santini, Lecturer, University of Corsica Institute of Technology, France
- 11:20-11:45 **Title:** Women's Projects for Art and Design Education at University: Visual Artist and Graphic Designers - Two Case Studies
Dr. Jorge Manuel dos Reis Tavares Duarte, Associated Aggregated Professor, University of Lisbon, Portugal

WCE 06: Humanities and Social Science Education Forum

Time: 08:30-10:15, November 13, 2025 (Thursday); **Place:** Kamo, Fifth Floor

- Chair** **Dr. Jean-Paul Close**, Founder, STIR Foundation Eindhoven, the Netherlands
- 08:30-08:35 **Chair's Introduction**
- 08:35-08:55 **Title:** Family Education and Democracy in Post-1945 Japan
Dr. Mutsuko Tendo, Professor, Miyagi Gakuin Women's University, Japan
- 08:55-09:15 **Title:** A New Era, Also for Education
Dr. Jean-Paul Close, Founder, STIR Foundation Eindhoven, the Netherlands

- 09:15-09:35 **Title:** Land and Orature: Learning that Rises Above and Beyond Colonialism and Awakens a Lifelong Journey of Healing and Well-being
Dr. Davina D. Rousell, Research Associate, University of Alberta, Canada
Dr. Doreen Frencheater, Language Keeper, University of Alberta, Canada
- 09:35-09:55 **Title:** Kahani Literacy Project: Culturally Efficacious Story Writing
Dr. Kalpana Mukunda Iyengar, Assistant Professor of Practice, University of Texas at San Antonio, USA
- 09:55-10:15 **Title:** Intercultural Dialogue as Main Strategy to Tackle Misinformation: The Creation of the Brazilian Media and Information Literacy Olympiad
Dr. Claudia Marinho Wanderley, Permanent Researcher, State University of Campinas (UNICAMP), Brazil

WCE 07: Video Forum

- 01 **Title:** The Role of Artificial Intelligence in Shaping the Future of Education
Dr. Marja-Liisa Tenhunen, Rector, Dimitrie Cantemir Christian University, Finland
- 02 **Title:** Content and Language Integrated Learning (CLIL) Approach to Teaching Multilingualism: Theory and Practice
Dr. Oksana Ivanova, Associate Professor, Pyatigorsk State University, Russia
- 03 **Title:** AI Literacy and Distributed Creativity
Dr. Lorenzo Manera, Researcher, University of Modena and Reggio Emilia, Italy
- 04 **Title:** The Impact of AI on Education and Lifelong Learning
Mr. David Wortley, Non-Executive Director, World Lifestyle Medicine Education Services, UK
- 05 **Title:** Analyzing the Relationship Between Sense of Belonging with Perception of Academic - Confidence, Stress, and Exclusion for College Students with Different Demographics
Dr. Mahtash Esfandiari, Director, Department of Statistics and Data Science at UCLA, USA
- 06 **Title:** Critical Aspirations and Agency Amid Global Uncertainty
Dr. Aliya Khalid, Course Director, Lady Margaret Hall, UK
- 07 **Title:** Social Anxiety and Learning Disorders - The Case of Learning Difficulties and Interpersonal Distance Anxiety
Dr. Ephraim Grossman, Department of Education, Ariel University, Israel
- 08 **Title:** Recognition Accreditation Supporting Teachers
Dr. Ricardo León Bórquez, Professor and President, World Federation for Medical Education, UK
- 09 **Title:** Moral Competences of 20th Century Teachers (Analyses and Reflections)
Dr. Mirosław Kowalski, Assistant Professor, University of Zielona Gora, Poland
- 10 **Title:** The Importance of Father-Son Communication in the Educational Process
Dr. Anita Famula-Jurczak, Professor, University of Zielona Gora, Poland

- 11 **Title:** Educating the Next Generation of Scientists: From Early Childhood to Undergraduate Education
Dr. Roseanne L. Flores, Professor, Hunter College of the City University of New York, USA

The 13th Annual World Congress of Ocean (WCO-2025)

WCO 01: Ocean Economy and Maritime Law

Time: 13:30-17:35, November 11, 2025 (Tuesday); **Place:** Yoshino, Fifth Floor

- Chair** **Dr. Hermann Held**, Professor, Chair Sustainability & Global Change, University of Hamburg, Germany
- 13:30-13:35 **Chair's Introduction**
- 13:35-14:00 **Title:** Evaluation Modelling Green Shipping Technologies: A Techno-Economic-Energy-Environment Complex Systems Approach
Dr. Feier Chen, Vice Chief, Research Institute of Coastal & Shipping Management, School of Ocean and Civil Engineering, Shanghai Jiao Tong University, China
- 14:00-14:25 **Title:** Probabilistic Time to Collapse as a Risk Communication Tool
Dr. Hermann Held, Professor, Chair Sustainability & Global Change, University of Hamburg, Germany
- 14:25-14:50 **Title:** The Just Allocation of Captured Forage Fish - Human Food or Fish Food?
Dr. Moshe Agami, Ecologist, School of Plant Sciences and Food Security, George S. Wise Faculty of Life Sciences, Tel Aviv University, Israel
- 14:50-15:15 **Title:** Defining and Constructing Islandness
Ms. Qingliu Ren, Faculty of Geographical Science, Beijing Normal University Zhuhai, China
- 15:15-15:30 **Coffee Break**
- 15:30-15:55 **Title:** The Ship Financing Portal of the European Union
Dr. Salvatore Vitale, Professor of International Law of Economics, UNIDAV University, Italy; Senior Partner of Vitale & Partners, International Law Firm, Italy
- 15:55-16:20 **Title:** Legal Liability in Maritime Incidents Involving AI-Oriented or Non-Human Operational Advanced Technology
Mr. Nobuto Yamaguchi, Managing Partner, Tokyo Sanno Law Office, Japan
- 16:20-16:45 **Title:** Specifics of Vessel Operation in Ice Conditions and Northern Sea Route Area
Mr. George Ossipov, Naval Architect, Surveyor, Director of Marinex ITS Ltd., St. Petersburg, Russia; Vice-President of National Association of Insurance Adjusters, Russia
- 16:45-17:10 **Title:** One Ocean, One Law: Unification of Maritime Law and Its Importance for the Effective Protection of the Ocean
Ms. Ramat Jalloh, Lecturer, IMO International Maritime Law Institute, Malta
- 17:10-17:35 **Title:** Legal Aspects of Ship Recycling
Dr. Hari Narayan Veettath Brelviv, Partner, United Maritime Law Chambers, India

WCO 02: Ocean Engineering, Science and Technologies

Time: 08:30-12:30, November 12, 2025 (Wednesday); **Place:** Yoshino, Fifth Floor

Chair **Mr. Earl J. Dodd**, Co-Founder & CTO, MMersive Technology, Inc., USA

08:30-08:35 **Chair's Introduction**

08:35-08:55 **Title:** Applications of Underwater Digital Holography Technology for Ocean Exploration

Dr. Victor Dyomin, First Vice-Rector, National Research Tomsk State University, Russia

08:55-09:15 **Title:** Technical Reference (Tr) Books on Competence Standards and Performance Criteria for Liquefied Natural Gas (Lng) Floating Storage Unit (Fsu)

Ts. Dr. Captain Manivannan Subramaniam, Chief Executive, Akademi Laut Malaysia, Malaysia

09:15-09:35 **Title:** MMersive: STEAM Powered Immersive EdTech for Ocean Science and Conservation

Mr. Earl J. Dodd, Co-Founder & CTO, MMersive Technology, Inc., USA

09:35-09:55 **Title:** Predicting Marine Ecosystem Responses: Lessons from Young Fossil Records

Dr. Yael Edelman-Furstenberg, Head, Marine Geology Division, Geological Survey of Israel, Israel

09:55-10:15 **Title:** Methodology for Precise Monitoring of River Bottom Changes Using Geodetic and Hydroacoustic Techniques

Dr. Dariusz Popielarczyk, Dean of Faculty of Geoengineering, University of Warmia and Mazury, Poland

10:15-10:30 **Coffee Break**

10:30-10:50 **Title:** Remote Sensing of Coastal Environments – The Concept of Land To-Sea (L2S) Mapping Using Earth Observation Data

Dr. Natascha Oppelt, Professor, Kiel University, Germany

10:50-11:10 **Title:** Estimation of Chlorophyll-a Concentration in Hiroshima Bay Using Landat-8/9 Data

Mr. Yoshinari Oguro, Professor, Hiroshima Institute of Technology, Japan

11:10-11:30 **Title:** Machine Learning Methods Comparison for Maritime Wireless Signal Strength Prediction

Dr. Kun Yang, Professor, Zhejiang Ocean University, China

11:30-11:50 **Title:** An Analysis of the Spatio-Temporal Distribution of Recreational Boating Tourism Traffic on Inland and Coastal Waters

Dr. Tomasz Templin, Researcher and Consultant, Faculty of Geoengineering, University of Warmia and Mazury, Poland

11:50-12:10 **Title:** Antibacterial Properties of Marine Bacteria Isolated from The New Caledonia Coast Against Methicillin-Resistant Staphylococcus Aureus

Dr. Céphas Xuma, Ph.D. Student, Institute Pasteur of New Caledonia, New Caledonia

- 12:10-12:30 **Title:** Aequor's Products Mimic Nature's Remedy for Micro and MacroFouling (Video)
Dr. Marilyn J. Bruno, CEO, Aequor Inc., USA

WCO 03: Ocean Energy Development and Utilization

Time: 13:30-15:15, November 12, 2025 (Wednesday); **Place:** Yoshino, Fifth Floor

Chair **Mr. Andy Billcliff**, CEO, Menter Mon Morlais Ltd., UK

13:30-13:35 **Chair's Introduction**

13:35-13:55 **Title:** Ocean Thermal Energy Can Be Economical Today
Mr. James H Anderson, President, Sea Solar Power, USA

13:55-14:15 **Title:** Progress and Challenges of Key Technologies in Deepwater Drilling Engineering
Dr. Yanbin Wang, Professor, China University of Petroleum, China

14:15-14:35 **Title:** Morlais Tidal Energy, The Long Voyage, Latest Position
Mr. Andy Billcliff, CEO, Menter Mon Morlais Ltd., UK

14:35-14:55 **Title:** Spatiotemporal Characteristics of Offshore Wind and Wind Energy Potential in Sri Lanka
Dr. Jinglong Yao, Deputy Director, China-Sri Lanka Joint Center for Education and Research, Chinese Academy of Sciences, China

14:55-15:15 **Title:** Kelp Grown in the Open Ocean as Abundant Feedstock for Renewable Fuels (Video)
Mrs. Cindy Wilcox, President, Marine BioEnergy, Inc., USA

WCO 04: Smart Port, Green Shipping

Time: 15:30-17:35, November 12, 2025 (Wednesday); **Place:** Yoshino, Fifth Floor

Chair **Mr. Guangrong Zou**, Senior Scientist, Senior Project Manager, VTT Technical Research Centre of Finland, Finland

15:30-15:35 **Chair's Introduction**

15:35-15:55 **Title:** From Data Silos to Shared Intelligence: The Role of the Maritime Single Window in Smart & Green Ports and Shipping
Mr. Olli Soinen, Head of Programs, Fintraffic VTS, Finland

15:55-16:15 **Title:** Digitalization and Decarbonization for Business and Environmentally Sustainable Ports - A Finnish Case
Mr. Guangrong Zou, Senior Scientist, Senior Project Manager, VTT Technical Research Centre of Finland, Finland

16:15-16:35 **Title:** Naval Repair Sector: New Drydock and Shipbuilding Capabilities at the Port of Santa Cruz De Tenerife
Mr. Airam Díaz, Deputy Director, Ports of Tenerife, Spain

16:35-16:55 **Title:** The Lines of Cold Ironing and Port Electrification
Mr. Stathis Anagnostou, Executive Director, Strategy, Business Development & Transformation, Hellenic Electricity Distribution Network Operator S.A., Greece

- 16:55-17:15 **Title:** Digitalization of Ports' Organization & Operations
Captain Yoss Leclerc, President and CEO, Logistro Consulting International Inc., Canada
- 17:15-17:35 **Title:** Safe Navigation in a World of GPS/GNSS Jamming and Spoofing (Video)
Mr. Dana A. Goward, President, Resilient Navigation and Timing Foundation, USA

WCO 05: Aquaculture and Fisheries

Time: 08:30-10:15, November 13, 2025 (Thursday); **Place:** Yoshino, Fifth Floor

- Chair** **Dr. Bosiljka Mustać**, Professor, University of Zadar, Croatia
- 08:30-08:35 **Chair's Introduction**
- 08:35-08:55 **Title:** The Role of Certifications in Promoting Sustainable Exploitation of Ocean Resources
Mr. Paolo Bray, Founder and Director, Friend of the Earth and Friend of the Sea, Italy
- 08:55-09:15 **Title:** Conversion of Coastal Wetland to Mariculture on Greenhouse Gas Footprint
Dr. Weixin Ding, Professor, Institute of Soil Science, Chinese Academy of Sciences, China
- 09:15-09:35 **Title:** Intelligent Processing for a Changing Ocean: Technological Pathways for Sustainable Fish Supply
Mr. Marcel Franz, CEO, BAADER ASIA PTE. Ltd., Singapore
- 09:35-09:55 **Title:** The Occurrence of Wild Fish in the Vicinity of Aquaculture Cages: A Case Study of Bogue (Boops Boops) from the Adriatic Sea (Croatia)
Dr. Bosiljka Mustać, Professor, University of Zadar, Croatia
- 09:55-10:15 **Title:** The High Seas Treaty and Sustainable Fisheries
Mrs. Ana Olivert, Independent Legal Consultant and Researcher, Suva, Fiji

WCO 06: Ocean Management and Environment Protection

Time: 10:30-12:15, November 13, 2025 (Thursday); **Place:** Yoshino, Fifth Floor

- Chair** **Mr. Nigel Bowen-Morris**, Partner, Stephenson Harwood, UK
- 10:30-10:35 **Chair's Introduction**
- 10:35-10:55 **Title:** Countermeasures on Plastic Pollution in East and Southeast Asian Countries
Dr. Michikazu Kojima, Chief Senior Researcher, Institute of Developing Economies, Japan External Trade Organization, Japan
- 10:55-11:15 **Title:** Green Environment Evaluation Indicators for Coastal Green Substations
Dr. Xin Liu, Professor & Associate Dean, School of Economics and Business Administration, Chongqing University, China
- 11:15-11:35 **Title:** A Case Study on the Application of Nagasaki Restoration Coral Reef Technologies in Ecotourism
Ms. Chika Sato, Biotechnology Engineer, M. M. Bridge Co., Ltd., Japan
- 11:35-11:55 **Title:** Maritime Legislation and the Environment
Mr. Nigel Bowen-Morris, Partner, Stephenson Harwood, UK

11:55-12:15 **Title:** Framing Analysis of Japan and China's Response to Fukushima's Nuclear-Contaminated Water Discharge: Technical Rationality vs Local Experience
Mr. Chenxi Sun, Ph.D. Candidate, School of National Security and Emergency Management, Beijing Normal University Zhuhai, China

The 11th World Energy Congress (WEC-2025)

WEC 01: Latest Research and Development on Energy and Its Application

Time: 13:30-16:45, November 11, 2025 (Tuesday); **Place:** Kamo, Fifth Floor

Chair **Dr. Pascal Briois**, Associate Professor, University of Technology of Belfort-Montbéliard, France

13:30-13:35 **Chair's Introduction**

13:35-14:00 **Title:** Geothermal Energy and Its Application to Integrated Energy Systems and Low Carbon Fuel Production
Mr. David Robert Cavanagh, Managing Director, Integrated Energy Pty Ltd., Australia

14:00-14:25 **Title:** Modified CANDU Reactor MCR as an Early-Deployable Nuclear Workhorse
Dr. Juergen Knorr, Professor Emeritus, Technical University Dresden, Germany

14:25-14:50 **Title:** Application of PVD Technology for SOFC to Increasing Lifetime
Dr. Pascal Briois, Associate Professor, University of Technology of Belfort-Montbéliard, France

14:50-15:15 **Title:** Advancing Metal Halide Perovskites: Stability Strategies and Multifunctional Applications
Dr. Jun Pan, Professor, Zhejiang University of Technology, China

15:15-15:30 **Coffee Break**

15:30-15:55 **Title:** Investigation on Coupling Oscillation of the Water-diversion Hydropower System and Further Engineering Application
Dr. Jianxu Zhou, Professor, Hohai University, China

15:55-16:20 **Title:** Characteristics of Concentration Distribution Through the Exposure Route from Emission Sources in Small Multi-Purpose Industrial
Dr. Kilyong Choi, Associate Professor, Anyang University, South Korea

16:20-16:45 **Title:** Numerical Simulation of Deflagration Appearance in Hydrogen-Air Mixtures Turbulent Viscous Flows (Video)
Dr. Sergey N. Martyushov, Professor, Moscow Aviation Institute-National Research University, Russia

WEC 02: Global Energy Policies, Market and Future Trends

Time: 10:30-12:15, November 13, 2025 (Thursday); **Place:** Kamo, Fifth Floor

Chair **Dr. Izabela Barbara Sztangret**, Professor, University of Economics in Katowice, Poland

- 10:30-10:35 **Chair's Introduction**
- 10:35-10:55 **Title:** Prospects for Alkaline Exchange Membrane (AEM) Electrolysis
Dr. Ervin Tal-Gutelmacher, CEO, Hydrolite Ltd., Israel
- 10:55-11:15 **Title:** From Compliance to Commitment: The Impact of the CSDD Directive on Corporate ESG Awareness and Practices
Dr. Izabela Barbara Sztangret, Professor, University of Economics in Katowice, Poland
- 11:15-11:35 **Title:** Out of the Blue: Can Blue Coal Redefine the Polish Fuel Market?
Dr. Kornelia Przedworska, Assistant Professor, University of Economics in Katowice, Poland
- 11:35-11:55 **Title:** Empowering the Future Grid: Model Predictive Control for Intelligent Hybrid Microgrid Automation
Dr. Somayeh Mohammady, Lecturer, School of Electrical and Electronic Engineering, Technological University Dublin, Ireland
- 11:55-12:15 **Title:** The Share of Hydropower Energy in Energy Demand of Turkey and Its Sustainability
Dr. İbrahim Gurer, Professor, Baskent University, Turkey

The 12th Annual World Congress of Food and Nutrition (WCFN-2025)

WCFN 01: Research and Development for Food and Nutrition Science

Time: 13:30-16:45, November 12, 2025 (Wednesday); **Place:** Kamo, Fifth Floor

- Chair** **Dr. Satoshi Matsuda**, Associate Professor, Shizuoka University, Japan
- 13:30-13:35 **Chair's Introduction**
- 13:35-14:00 **Title:** Oral Intake of Degalactosylated Whey Protein Increases Peripheral Blood Telomere Length in Young and Aged Mice
Dr. Toshio Inui, CEO, Saisei Mirai Clinic Group, Japan
- 14:00-14:25 **Title:** Engineering of Composting Plants for the Treatment and Recycle of Waste Foods
Dr. Satoshi Matsuda, Associate Professor, Shizuoka University, Japan
- 14:25-14:50 **Title:** The Mechanisms and Nutritional Treatments for Sarcopenia
Mr. Kento Hamada, Institute of Science Tokyo, Japan
- 14:50-15:15 **Title:** Oral Calcium Butyrate Attenuates Colonic and Cerebral Inflammation and Tissue Pathology Across Aging in Rats
Dr. Sevim Kandis Sever, Assistant Professor, MedEra Nutrition, Turkey
- 15:15-15:30 **Coffee Break**
- 15:30-15:55 **Title:** Microencapsulation of Bacillus Megaterium Humic Acid-Supplied Alginate Beads Enhances Tomato Growth and Suppresses the Root-Knot Nematode Meloidogyne Javanica under Greenhouse Conditions
Dr. Hanaa Ahmed Abokoura, Professor, Soils, Water, and Environment Research Institute, Agriculture Research Center, Egypt

- 15:55-16:20 **Title:** Chrononutrition for Infants: Better Sleep Through Chrononutrition with Melatonin-Rich Night Milk from Non-Pooled Cow's Milk (video)
Dr. Ekkehart Paditz, Professor, Center for Applied Prevention, Germany
- 16:20-16:45 **Title:** The Role of Vegetable and Fruit Learning Modules in Early Childhood Education: Insights from Preschool Educators (video)
Dr. Nur Suhaidah Binti Sukor, Senior Lecturer, University Malaysia Sabah, Malaysia

The 6th International Congress of Environment (ICE-2025)

ICE 01: Hot Topics in Environment Field

Time: 13:30-18:10, November 12, 2025 (Wednesday); **Place:** Katsura, Fifth Floor

- Chair** **Dr. Arminda do Paco**, Professor, University of Beira Interior, Portugal
Co-chair **Dr. Margarida Catalao-Lopes**, Associate Professor, Lisbon University, Portugal
- 13:30-13:35 **Chair's Introduction**
- 13:35-13:55 **Title:** The Degrading Capacity of Bacteria Species to the Maximum Threshold Concentration of Pesticides in Vitro and in Vivo Conditions
Dr. Tinatin Doolotkeldieva, Professor, Plant Science and Plant Protection Department; Head, Plant Protection Centre, Kyrgyz National Agrarian University After Name K. I. Skryabin, Kyrgyzstan
- 13:55-14:15 **Title:** ABC-Process for Carbon-Neutral and Energy-Independent Wastewater Treatment
Dr. Jungyu Park, Associate Professor, Chosun University, South Korea
- 14:15-14:35 **Title:** Integrated Sustainability Assessment of Biomass Power Plants Using Tree Pruning Residues in Greece
Dr. Styliani Sofianopoulou, Professor, University of Piraeus, Greece
- 14:35-14:55 **Title:** Sustainability Assessment of End-of-Life Wind Turbine Management Using LCA and TOPSIS
Dr. Vassilis Dedoussis, Professor Emeritus, University of Piraeus, Greece
- 14:55-15:15 **Title:** How Sustainable and Circular Can the Health Industry Be?
Dr. Arminda do Paco, Professor, University of Beira Interior, Portugal
- 15:15-15:30 **Coffee Break**
- 15:30-15:50 **Title:** Challenges in Energy Access, Energy Transition and Inequality
Dr. Margarida Catalao-Lopes, Associate Professor, Lisbon University, Portugal
- 15:50-16:10 **Title:** Financial Development, Environmental Regulation, and Firms' Pollution Emission: Evidence from China
Dr. Ruili Zhao, Associate Professor, Shanghai University of International Business and Economics, China

- 16:10-16:30 **Title:** Statistical Contributions to the Study of Contamination in Abandoned Mining Areas. The Case Study of the Vale das Gatas Mine-Portugal
Dr. Joaquim Gois, Assistant Professor, Porto University, Portugal
- 16:30-16:50 **Title:** Life Cycle Assessment of Ore Extraction from a Lithium Mine
Dr. Anonio Fiuza, Emeritus Professor, Porto University, Portugal
- 16:50-17:10 **Title:** ADAPT! Building Prototype for Climate-Adapted Urban Housing
Mr. Craig Applegath, Partner, DIALOG, Canada
- 17:10-17:30 **Title:** Building Resilience in a Dual-Risk Cities: Climate Change Problematic and Earthquake Challenges in Istanbul
Dr. Hülya Coskun, Associate Professor, Rumeli University, Turkey
- 17:30-17:50 **Title:** Anoxic Polyhydroxyalkanoates Production by Mixed Microbial Cultures
Dr. Xiaowu Huang, Associate Professor, Guangdong Technion-Israel Institute of Technology, China
- 17:50-18:10 **Title:** Recycling Biodegradable Waste to Combat Poor Solid Waste Management in Lubumbashi, Democratic Republic of the Congo
Dr. Elie Fereche Itoba-Tombo, Lecturer and Researcher, Cape Peninsula University of Technology, South Africa

ICE 02: Video Forum

- 01 **Title:** Linfluence of Materials from Natural Sources on the Environment and Sustainable Development
Dr. Abderrahim Benmoussat, Professor, Tlemcen University, Algeria
- 02 **Title:** Smart Ecologization of Cities Based on Optimal Investment Strategies for Energy Modernization of Buildings
Dr. Andrii Polyvianchuk, Professor, Vinnytsia National Technical University (VNTU), Ukraine

The 9th Annual World Congress of Smart Materials (WCSM-2025) & The 3rd Smart Manufacturing Forum (SMF-2025)

WCSM 01: Smart Materials Structures, Engineering and Manufacturing

Time: 13:30-17:35, November 11, 2025 (Tuesday); **Place:** Tatsuta, Fifth Floor

- Chair** **Mr. David Wortley**, Vice President, International Society of Digital Medicine, UK
- Co-chair** **Dr. Stuart Wiesner**, Head of R&D, Aluminium Rheinfelden Alloys GmbH, Germany
- 13:30-13:35 **Chair's Introduction**
- 13:35-14:00 **Title:** Leveraging AI for Smart Circular Manufacturing: Challenges and Opportunities
Dr. Iryna Bashynska, Professor, AGH University of Krakow, Poland
- 14:00-14:25 **Title:** Comparison Between Structural Components in Recently Developed Aluminum HP-DC Alloys with Magnesium and Steel Constructions
Dr. Stuart Wiesner, Head of R&D, Aluminium Rheinfelden Alloys GmbH, Germany

- 14:25-14:50 **Title:** Density Functional Study of Silver/Reduced Graphene Oxide Nanohybrid
Dr. Victor Eduardo Comparan Padilla, Researcher, Center for Research in Applied Chemistry, Mexico
- 14:50-14:15 **Title:** Semiconductor Scaling Challenges: Bottom-Up Area Selective Deposition for Next-Generation Devices
Dr. Younseon Wang, Staff Engineer, Samsung Electronics, South Korea
- 15:15-15:30 **Coffee Break**
- 15:30-15:55 **Title:** Construction and Application of Circularly Polarized Luminescent Materials Based on Achiral Polymers
Dr. Gong Zhang, Associate Professor, Henan University of Technology, China
- 15:55-16:20 **Title:** Shape-Memory Effects of Polymer Blends and Composites Enabled by the Control of Phase Morphology and Particle Distribution
Dr. Yu Zheng, Associate Professor, Sichuan University, China
- 16:20-16:45 **Title:** Role of New Materials in Large Scale Fukushima Radioactive Waste Water Treatment: Current Scenario
Dr. Anil Kumar Pabby, Ex-Senior Scientist, Bhabha Atomic Research Centre, India
- 16:45-17:10 **Title:** The Role of Smart Digital Twins
Mr. David Wortley, Vice President, International Society of Digital Medicine, UK
- 17:10-17:35 **Title:** Carbon-Efficient Pavement Solutions: Geopolymer Concrete with Recycled Asphalt Pavement Aggregates
Dr. G. D. Ransinchung R. N, Professor, Indian Institute of Technology Roorkee, India

WCSM 02: Smart Optical, Electronic and Magnetic Materials

Time: 08:30-11:45, November 12, 2025 (Wednesday); **Place:** Tatsuta, Fifth Floor

- Chair** **Dr. Cecil Bruce-Boye**, Professor, automITe GmbH., Germany
- 08:30-08:35 **Chair's Introduction**
- 08:35-09:00 **Title:** Real-Time Capable IoT Based Middleware Architecture
Dr. Cecil Bruce-Boye, Professor, automITe GmbH, Germany
- 09:00-09:25 **Title:** Functionalization of Liquid Crystal Loaded Metasurface
Dr. Seiji Fukushima, Professor, Kagoshima University, Japan
- 09:25-09:50 **Title:** On-chip Rolled-up Nanomembrane Passive Electronic Components
Dr. Wen Huang, Professor, Hefei University of Technology, China
- 09:50-10:15 **Title:** Intelligent Object Differentiation via Contour Extraction for Real-Time Streaming on UAV
Dr. Tsang-Ling Sheu, Director & Professor, Wireless Broadband Communications Research Center and National Sun Yat-Sen University, Taiwan
- 10:15-10:30 **Coffee Break**

- 10:30-10:55 **Title:** LaFeSi-based Magnetocaloric Materials Analysis: Thermal Performance and Endurance Results
Dr. Sergiu Lionte, R&D Manager, Magnoric SAS, France
- 10:55-11:20 **Title:** Laser Sails for Photon Pressure Propulsion to Relativistic Speeds
Dr. Claude R Phipps, Photonic Associates, LLC Santa Fe NM, USA
- 11:20-11:45 **Title:** Influence of Homoepitaxial Layer Thickness on Flatness and Chemical Mechanical Planarization Induced Scratches of 4H-Silicon Carbide Epi-Wafers
Dr. Chi-Hsiang Hsieh, Ph.D. Candidate, National Yang Ming Chiao Tung University, Taiwan

WCSM 03: Future Trends and Applications of Smart Materials

Time: 08:30-11:45, November 13, 2025 (Thursday); **Place:** Tatsuta, Fifth Floor

- Chair** **Mr. Manoj Dalaya**, Co-President, KGD Architecture, USA
- Co-chair** **Dr. Bogdan Varga**, Professor, Technical University of Cluj-Napoca, Romania
- 08:30-08:35 **Chair's Introduction**
- 08:35-09:00 **Keynote Speech**
Title: Multifunctional Composite Materials – From Development to Deployment
Dr. Raj Das, Professor and Deputy Head of Department, RMIT University, Australia
- 09:00-09:25 **Title:** Challenges to Develop Thin Lithium Metal Electrode for the Next-Generation of Solid-State Batteries
Dr. Didier Devaux, Research Scientist, CNRS, France
- 09:25-09:50 **Title:** Modification of Microstructure, Crystal Structure, Phase Composition and Electrical Properties of Selected ABO₃-Type Materials for Electrochemical Energy Conversion
Dr. Pawel Pasierb, Professor, AGH University of Science and Technology, Poland
- 09:50-10:15 **Title:** Sequestering Carbon in Concrete: Enhancing Sustainability in Construction
Mr. Manoj Dalaya, Co-President, KGD Architecture, USA
- 10:15-10:30 **Coffee Break**
- 10:30-10:55 **Title:** Materials-Driven Optimization of CAV Platforms with Hydrogen Fuel Cell Propulsion
Dr. Tudor Oarga, Dr. Bogdan Varga, Dr. Dan Moldovanu, Dr. Nicolae Cordoș, Technical University of Cluj-Napoca, Romania
- 10:55-11:20 **Title:** Fuel Cell Hydrogen Mobility
Dr. Bogdan Varga, Professor, Technical University of Cluj-Napoca, Romania
- 11:20-11:45 **Title:** Comparative Analysis of Implementation and Operational Costs Between BEBs and FCEBs
Dr. Horatiu Carausan, Dr. Bogdan Varga, Dr. Gabriel Prunean, Dr. Nicolae Vlad, Technical University of Cluj-Napoca, Romania

The 3rd World Congress of AI Industry (WCAI-2025)

WCAI 01: AI Industry

Time: 13:30-17:10, November 12, 2025 (Wednesday); **Place:** Tatsuta, Fifth Floor

Chair	Dr. Michael Short , Professor & Associate Dean (Research & Innovation), Teesside University, UK
Co-chair	Dr. Henry Hexmoor , Professor, Southern Illinois University, USA
13:30-13:35	Chair's Introduction
13:35-13:55	Keynote Speech Title: Strategic Electrode Development: Bridging Material Design and Battery Performance Dr. Hsing-Yu Tuan , Professor, National Tsinghua University, Taiwan
13:55-14:15	Title: Innovations in AI and Robotics: Towards a Full-Scale EV Battery Recycling Industry in the UK Dr. Michael Short , Professor & Associate Dean (Research & Innovation), Teesside University, UK
14:15-14:35	Title: Quo Vadis, Logistics? The Role of AI and Robotics Navigating the Rise of Automation Dr. Tino Krüger-Basjmeleh , Senior Robotics Expert, KION Group STILL GmbH, Germany
14:35-14:55	Title: Challenges in the Development of Dependable Autonomous Systems Dr. Elena Troubitsyna , Professor, KTH – Royal Institute of Technology, Sweden
14:55-15:15	Title: Generating of Near Anomalies Dr. Martin Klimo , Professor Emeritus, Zilina University, Slovakia
15:15-15:30	Coffee Break
15:30-15:50	Title: The Gap Between Artificial General Intelligence and Generative Artificial General Intelligence Dr. Henry Hexmoor , Professor, Southern Illinois University, USA
15:50-16:10	Title: Application of AI for in situ Monitoring of Artemia Salina Population Using a Submersible Digital Holographic Camera Dr. Victor Dyomin , First Vice-Rector, National Research Tomsk State University, Russia; Head, Laboratory of Radiophysical and Optical Methods for Environmental Research, Russia
16:10-16:30	Title: Contemporary Research About the Digital Transformation of Manufacturing Companies Dr. Lucia Knapcikova , Associate Professor, Technical University of Kosice, Slovakia
16:30-16:50	Title: Artificial Intelligence: An Untapped Opportunity for Equity and Access in STEM Education Dr. Tiffanie Zaugg , Post Doc., University of Central Florida, USA

- 16:50-17:10 **Title:** GCA²Net: Global-Consolidation and Angle-Adaptive Network for Oriented Object Detection in Aerial Imagery
Dr. Shenbo Zhou, Researcher, National Key Laboratory of Optical Field Manipulation Science and Technology, Chinese Academy of Sciences, China

Posters & Papers

- WCFN 01 **Title:** Circadian Rhythmicity of Serum and Milk Melatonin Concentrations in Cows: Systematic Review
Dr. Ekkehart Paditz, Professor, Center for Applied Prevention, Germany
- WCO 02 **Title:** European Fisheries Enhancement Through 'Omic' Characterization and Seafood Production from Underutilized Fish Species
Dr. Tiziana Pepe, Full Professor, Department of Veterinary Medicine and Animal Production, University of Naples "Federico II", Italy
- ICE 03 **Title:** Phytocoenotic and Soil Signs of Current Global Warming on the Boreal Ecotone of the East-European Plain
Dr. Erland G. Kolomyts, Professor, Institute of Basic Biological Problems, Russia
- ICE 04 **Title:** Smart Ecologization of Cities Based on Optimal Investment Strategies for Energy Modernization of Buildings
Dr. Andrii Polyvianchuk, Professor, Vinnytsia National Technical University (VNTU), Ukraine
- WCSM 05 **Title:** Borate Bioactive Glasses with High Calcium Content
Ms. Katarzyna Kozubal, Ph.D. Candidate, AGH University of Krakow, Poland
- WCSM 06 **Title:** Injectable Hydrogels Based on Chitosan-Gelatin Biomaterials as Carriers of Biologically Active Compounds
Ms. Weronika Gura, Ph.D. Student, AGH University of Krakow, Poland
- WCSM 07 **Title:** CoO as a Modifier of Bioactive Borate Glasses
Ms. Patrycja Gackowska-Gondek, Ph.D. Candidate, AGH University of Krakow, Poland
- WCSM 08 **Title:** Laser-Directed Energy Deposition of Bioactive Glass on Ti-6Al-7Nb Titanium Alloy Substrate with Highly Refined Grain Structure
Dr. Katarzyna Cholewa-Kowalska, Associate Professor, AGH University of Krakow, Poland
- WCSM 09 **Title:** Calculating the Active Volume of Dislocation Nucleation of Third-Generation Semiconductor Silicon Carbide Using Nanoindentation
Mr. Jun-Yu Wang, Ph.D. Student, National Sun Yat-sen University, Taiwan

Exhibitor



Sea Solar Power

Sea Solar Power has been focused on bringing Ocean Thermal Energy to the world since 1963. Through private funding sources SSP has developed an optimized OTEC power system as well as the components needed to build a floating 25 MW net power plant. We continue to test our proprietary heat exchangers, 4 MW hydrocarbon-vapor power turbine, and cold-water pipe design. SSP is ready today to build a prototype 25 MW plant with a projected electricity output cost of \$0.14/kWh for the initial plant, and \$0.11/kWh and lower for subsequent and larger plants. It is very competitive pricing for base load power for oil field tiebacks, data servers, and diesel generation.

Sea Solar Power is affiliated with J. Hilbert Anderson Inc. and Coupling Corporation of America. These three companies are related in ownership and occupy their 65,000 ft² manufacturing facility in Jacobus, Pennsylvania and a 2nd manufacturing facility in Hanover, PA, USA

Sea Solar Power can manufacture the key operating and proprietary machinery and elements in these facilities. We have over 50 employees in engineering, machining, welding, assembly and inspection. In addition, SSP, CCA, and JHA have developed strong suppliers for materials and equipment. We regularly serve power, petrochemical, refrigeration, automotive, and military industries around the world. Our companies engineered the world's first low temperature hot water geothermal power plant in the early 1980's.

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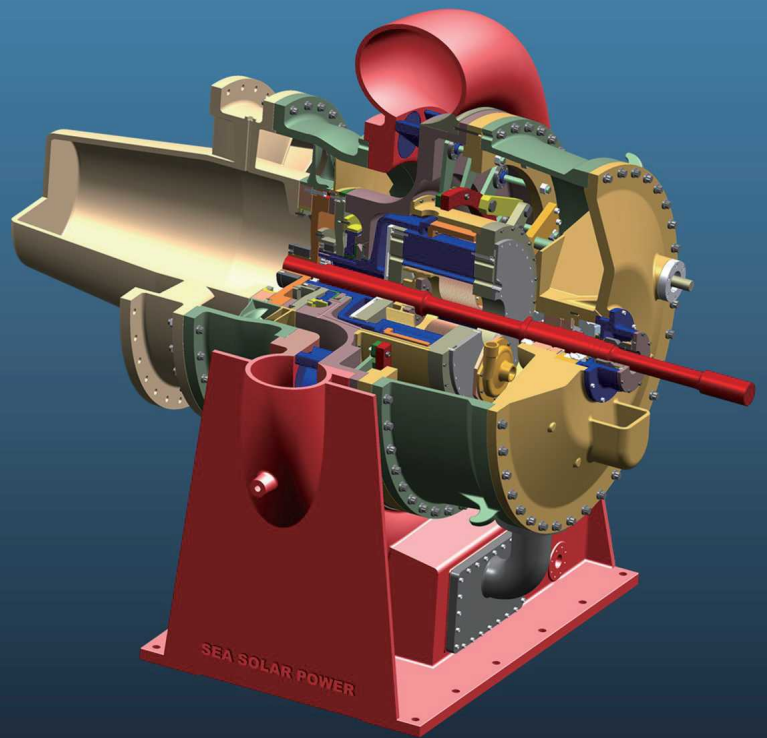
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