

Monaco Clean Fusion Forum

28 APRIL 2025



Yacht Club de Monaco



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CLEAN FUSION NOW

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APRIL 28TH AGENDA

- 8:30-9:00 **Registration, Coffee, Networking**
- 9:00-9:10 **Opening Speech**
*Peter Liu (CEO of Alpha Ring),
Ida Liu (Former Global Head of Citi Private Bank)*
- 9:10-9:20 **Keynote Why Fusion Matters**
Roger Falcone (Chief Scientist of Alpha Ring)
- 9:20-9:40 **Keynote Japan's Fusion Strategy**
Heizo Takenaka (Former Minister of State for Financial Services, Japan)
- 9:40-10:00 **Keynote Challenges in Fusion: Education and Workforce Development**
Ambrogio Fasoli (Vice President of EPFL, former CEO of EUROfusion)
- 10:00-10:15 **Welcome Address by HSH Prince Albert II of Monaco**
- 10:15-10:30 **Award and Signing Ceremony**
University Representatives
- 10:30-10:50 **Presentation Energy of the Next Generation: Driving Fusion Education Globally with Alpha-E**
Alexander Gunn (Senior Scientist at Alpha Ring)
- 10:50-11:20 **Coffee Break**
- 11:20-12:00 **Panel Discussion Education in Fusion**
Ryan Ramsey (Co Chair of the Fusion Skills Council, UK), Dario Cruz (CEO of FuseNet), Jenny Su (Chairman of NCKU Research and Development Foundation)
Moderator: Roger Falcone (Chief Scientist of Alpha Ring)
- 12:00-13:00 **Networking Lunch**
- 13:00-13:20 **Keynote AI-Energy-Fusion**
Ahmad Bahai (Senior VP and Chief Technology Officer of Texas Instruments)

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APRIL 28TH AGENDA

- 13:20-13:40 **Keynote** Bringing Fusion to Public: Driving Public Awareness & Industry Adoption
Mikhail Chudakov (Deputy Director General, Head of the Department of Nuclear Energy of IAEA)
- 13:40-14:00 **Keynote** Fusion Ignition: What Comes Next?
Kimberly S. Budil (Director of the Lawrence Livermore National Lab)
- 14:00-14:15 **Keynote** Zero Waste and Beyond
Arthur Huang (Founder & CEO of Miniwiz)
- 14:15-15:00 **Roundtable** Fusion as a Global Initiative: How Nations are Shaping the Holy Grail of Energy
Isolda Costa (Director of IPEN), Luciano Martin (Director of RSE), Daniel Kammen (Professor of Energy, UC Berkeley), Alain Bécoulet (Deputy Director General of ITER)
Moderator: Stuart Allen (CEO of FusionX)
- 15:00-15:15 **Coffee Break**
- 15:15-15:45 **Fireside Chat** Energy Strategies
Jeffrey Bohn (Senior Advisor of Anthropocene Institute), Stefano Besseghini (President of ARERA, Italy)
- 15:45-16:30 **Panel** First Markets in Fusion: Early Commercial Opportunities in Fusion
Emanuele Massarelli (Vice President of EEI S.p.A.), Rajeev Pattathil (Head of Novel Accelerator Science and Applications at Rutherford Appleton Laboratory), Alexander Gunn (Senior Scientist at Alpha Ring)
Moderator: Gianluca Gregori (Professor of Physics at Oxford University)
- 16:30-17:15 **Panel** AI for Fusion & Fusion for AI
Mark Thomas (CEO of First Light Fusion), Tim Dodwell (Founder & CEO of digiLab), Michele Laurelli (CEO of Algoretico), Aleksei Zolotarev (CEO & Founder of Next Step Fusion)
Moderator: Giovanni Landi (Alpha Ring EMEA General Manager)
- 17:15-17:30 **Closing Remarks**
- 17:30-20:30 **Networking & Gala Dinner**

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INTRODUCTION



Inaugural Address

H.S.H. Prince Albert II of Monaco

Prince Albert II is the reigning monarch of Monaco and a global advocate for environmental sustainability. Through the Prince Albert II of Monaco Foundation, he has supported initiatives in climate change mitigation, ocean conservation, and biodiversity protection. Additionally, Prince Albert II has demonstrated a strong commitment to advancing fusion education exemplified by the establishment of the Monaco-ITER Postdoctoral Fellowship Program.

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INTRODUCTION



Opening Speech

Peter Liu

CEO of Alpha Ring International - Chairman of WI Harper

Beside his role of CEO of Alpha Ring International, Mr Liu is the Founder and Chairman of WI Harper Group. With 20 years of experience in venture capital, Mr. Liu is widely regarded as a pioneer of venture capitalists in Asia. Mr. Liu was educated at the University of California, Berkeley. His diverse background fostered economic cooperation between numerous leading enterprises of US and greater China. Mr. Liu is a WEF member, he holds several directorships on Committee of 100, the 1990 Institute and San Francisco Shanghai Sister City Committee. Mr. Liu is member of the Pacific Council, The Atlantic Council of the U.S., Honorary Board Member of the Hua Yuan Science Technology Association and founder of Monte Jade Association and Taipei VC Association.

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INTRODUCTION



Opening Speech

Ida Liu

Former Global Head of Citi Private Bank

Ida Liu joined Merrill Lynch investment bank in 1999 and worked in both New York and Hong Kong, focusing on China and Taiwan deals in the technology, media, and telecom sectors. At Citi Private Bank, in 2007 she launched and headed the Fashion, Retail, and Entertainment Group. In 2011, she founded Citi Private Bank's newly formed North America Asian Clients Group before becoming Global Market Manager for New York in 2016. In 2019, she was promoted to head the Private Bank in North America. In 2021, Liu was appointed Global Head of Private Banking. Liu holds a B.A. with honors from Wellesley College and an Executive MBA from the Wharton School of the University of Pennsylvania.

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INTRODUCTION



Featuring

Peter Kurz

Chairman of Alpha Ring Asia

Mr Kurz has exceptional financial expertise from his tenure as Head of Country Research & Managing Director at Citigroup Global Markets Taiwan (2007-2019). As a pioneering financial leader, he established the first Qualified Foreign Institutional Investor in Taiwan in 1991, opening critical investment channels. His market insights have been consistently recognized with top rankings from prestigious financial publications including Institutional Investor, Euromoney, and AsiaMoney. In his role as Chief Strategy Officer at QIC, Peter advises major biotechnology firms on navigating international capital markets, bringing valuable strategic perspective to our board.

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KEYNOTE SPEAKER



Why Fusion Matters

Roger Falcone

*Former President of the American Physical Society;
Professor of Physics, UC Berkeley;
CSO of Alpha Ring International*

Dr. Roger Falcone is a distinguished physicist and Professor Emeritus at the University of California, Berkeley, where he has contributed significantly to the study of ultrafast processes in materials under extreme conditions. He has held prominent positions, including serving as Director of the Advanced Light Source at Lawrence Berkeley National Laboratory, and as President of the American Physical Society in 2018.

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KEYNOTE SPEAKER



Japan's Fusion Strategy

Heizo Takenaka

Director of Global Security Research Institute at Keio University

Dr. Heizo Takenaka is a prominent Japanese economist and policymaker known for his contributions to economic reform and energy policy. As the former Minister of Internal Affairs and Communications of Japan, he played a significant role in shaping national policy discussions, including those on nuclear energy. With his deep expertise in economic strategy and governance, Dr. Takenaka offers valuable insights into Japan's approach to fusion energy development and its broader implications for the country's energy future.

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KEYNOTE SPEAKER



Challenges in Fusion: Education and Workforce Development

Ambrogio Fasoli

Vice President of EPFL, former CEO of EUROfusion

Dr. Ambrogio Fasoli is a prominent physicist specializing in plasma physics and nuclear fusion. He has served as the Director of the Swiss Plasma Center at EPFL and was appointed Programme Manager (CEO) of EUROfusion, the European Consortium for Fusion Energy, in January 2024. His leadership has been instrumental in advancing fusion research and steering collaborative efforts toward developing fusion as a viable energy source.

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AWARD CEREMONY



Academic and Research Institutions:

University of California, Berkeley (USA)

University of Oxford (UK)

Purdue University (USA)

Ricerca sul Sistema Energetico - RSE (Italy)

Macau University of Science and Technology (Macau)

IPEN, Nuclear and Energy Research Institute (Brazil)

National Cheng Kung University (Taiwan)

University of Montenegro (Montenegro)

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KEYNOTE SPEAKER



Energy of the Next Generation: Driving Fusion Education Globally with Alpha-E

Alexander Gunn

Senior Scientist of Alpha Ring International

Dr. Gunn combines expertise in physical chemistry and physics to bring a multidisciplinary approach to our research initiatives. His doctoral work at the University of California, Davis, in Physical Chemistry established his credentials in analyzing complex molecular interactions and energy transfer mechanisms. With a strong foundation in both chemistry and physics from his B.S. at Brigham Young University, Alexander bridges theoretical concepts with experimental applications. His research focuses on the chemical aspects of plasma processes and energy conversion, providing unique insights that complement our physics-centered approaches.

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PANEL DISCUSSION



Education in Fusion

Roger Falcone

Former President of the American Physical Society; Professor of Physics, UC Berkeley; CSO of Alpha Ring International (Moderator)

Ryan Ramsey

Co-Chair of the Fusion Skills Council

Jenny Su

Distinguished Professor, Dept. of Environmental and Occupational Health, College of Medicine of NCKU

Dario André Cruz Malagòn

Executive Officer of Eindhoven University of Technology

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KEYNOTE SPEAKER



AI-Energy-Fusion

Ahmad Bahai

Senior Vice President and CTO of Texas Instruments

Dr. Ahmad Bahai is the Senior VP and Chief Technology Officer at Texas Instruments, where he leads groundbreaking innovation, corporate research, and Kilby Labs. He also serves as a Professor of the Practice at the Massachusetts Institute of Technology (MIT), is an IEEE Fellow, and is a member of the Industrial Advisory Committee for the CHIPS Act. Previously, Dr. Bahai contributed to the President's Council of Advisors on Science and Technology's semiconductor working group. From 2017 to 2022, he was an Adjunct Professor at Stanford University and, from 2001 to 2010, a Professor in Residence at UC Berkeley. Dr. Bahai's technology leadership experience includes roles as Director of Research Labs and CTO at National Semiconductor, Technical Manager of a research group at Bell Laboratories, and Founder of Algorex, a communications and acoustic IC and systems company acquired by National Semiconductor. He has authored over 80 publications in IEEE/IEE journals and holds more than 40 patents related to systems and circuits. Dr. Bahai earned a Master of Science in Electrical Engineering from Imperial College, University of London, and a Ph.D. in Electrical Engineering from the University of California, Berkeley.

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KEYNOTE SPEAKER



Bringing Fusion to Public: Driving Public Awareness & Industry Adoption

Mikhail Chudakov

*Deputy Director General and
Head of the Department of Nuclear Energy of IAEA*

Deputy Director General and Head of the Department of Nuclear Energy since February 2015. Mr Chudakov served as the Director of the Moscow Centre of the World Association of Nuclear Operators (WANO) since February 2007. Prior to this he held senior managerial positions in Russia's Rosenergoatom nuclear utility, appointed Deputy Director General of Rosenergoatom and Director of Bilibino Nuclear Power Plant in April 1999. From 1993 to 1995, Mr Chudakov served as Adviser at WANO in Moscow and in London. Between 1983 and 1993, he worked in a variety of roles at the Kalinin Nuclear Power Plant, including Senior Reactor Operator. Mr Chudakov holds a Ph.D. degree in nuclear engineering.

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KEYNOTE SPEAKER



Fusion Ignition: What Comes Next?

Kimberly S. Budil

Director of Lawrence Livermore National Laboratory

Dr. Budil is an American physicist and the current director of Lawrence Livermore National Laboratory, the first woman to hold this position. With a bachelor's degree in physics from the University of Chicago, and a master's and doctorate in applied science from the University of California, Dr. Budil collaborated with Nobel laureate Donna Strickland and made significant contributions to the field of high-power, ultra-fast lasers. Starting her career at Lawrence Livermore National Laboratory in 1987, she held various roles across government departments, including the Department of Energy and the Department of Defense. In 2014, she managed relations between the University of California's campuses and the three Department of Energy labs it manages. Budil, who was made a fellow of the American Physical Society in 2019, has also been a prominent advocate for women in science.

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KEYNOTE SPEAKER



Zero Waste and Beyond

Arthur Huang

Founder & CEO of Miniwiz

Arthur is a structural engineer, architect, and pioneer of loop economy building material solutions, specializing in post-consumer trash recycling applications to help shift mass consumption to a closed-loop model. In 2005, he established MINIWIZ, a company dedicated to upcycling consumer trash and industrial waste reuse innovation. Under Arthur Huang's leadership, MINIWIZ has pushed boundaries beyond all expectations, winning the company the Financial Times' Earth Award in 2010 and The Wall Street Journal's Asian Innovation Award in 2011. In 2015, MINIWIZ received the Technology Pioneers title from the World Economic Forum, recognizing the potential of the emerging industry that MINIWIZ is leading and the positive impact of its innovation on altering and adapting global consumption patterns.

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ROUND TABLE



Fusion as a Global Initiative

Stuart Allen

CEO of FusionX Group
(Moderator)

Daniel Kammen

Professor of Energy
University of California, Berkeley

Isolda Costa

Director of IPEN, Nuclear and
Energy Research Institute, Brazil

Alain Bécoulet

Deputy Director General -
Chief Scientist ITER Organization

Luciano Martini

Director Materials and Generation
Technologies Department of RSE Spa

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FIRESIDE CHAT

Energy Strategies



Jeffrey Bohn

Senior Advisor, Anthropocene Institute; Board Member and Affiliated Researcher, Center for Data Analytics in Risk, UC Berkeley

Dr. Bohn was the Chief Research & Innovation Officer and Head of Research & Engagement at the Swiss Re Institute. Most recently, he served as Chief Science Officer and Head of GX Labs at State Street Global Exchange in San Francisco. Before moving back to California, he established the Portfolio Analytics and Valuation Department within State Street Global Markets Japan in Tokyo. (He is fluent in Japanese.) He previously ran the Risk and Regulatory Financial Services consulting practice at PWC Japan.



Stefano Besseghini

President of ARERA

Dr. Stefano Besseghini is an Italian physicist and the President of ARERA, Italy's Regulatory Authority for Energy, Networks, and Environment. His career spans academia, industrial research, and public administration, with a strong focus on energy systems and materials science. As Italy strengthens its fusion energy initiatives, Dr. Besseghini plays a key role in shaping regulatory frameworks that support sustainable energy innovation and infrastructure development.

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PANEL DISCUSSION



First Markets in Fusion: Early Commercial Opportunities

Gianluca Gregori

*Professor of Physics,
Oxford University
(Moderator)*

Rajeev Pattathil

*Head, Novel Accelerator Science and
Applications at Rutherford Appleton
Laboratory*

Alexander Gunn

*Senior Scientist of Alpha Ring
International*

Emanuele Massarelli

Vice President of EEI S.p.A.

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PANEL DISCUSSION



AI for Fusion and Fusion for AI

Giovanni Landi

*EMEA Manager of Alpha Ring
International (Moderator)*

Michele Laurelli

CEO of Algoretico

Tim Dodwell

Founder and CEO of digiLab

Mark Thomas

*CEO of First Light Fusion
Executive Officer of Eindhoven
University of Technology*

Aleksei Zolotarev

*CEO & Founder of
Next Step Fusion*

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| KEY PARTICIPANTS (A TO Z) |

Stuart Allen CEO of FusionX Group

Hamza Al-Kholi Chairman of Alkoli Holding Company

Demetri Argyropoulos Founder & CEO of Avant Global

Ahmad Bahai CTO of Texas Instruments

Ion Bazac Head Representative of Cytophage Europe

Alain Bécoulet Deputy Director General of ITER Organization

The Rt Hon. the Lord Brady of Altrincham, PC Member of the Upper House, UK House of Lords

Kimberly S. Budil Director of Lawrence Livermore National Laboratory

Carlo Calabria Chairman of CMC Capital Limited

Marco Casiraghi President of ENGECO and FPFC - Monaco

Kou Sut Chi Senior Officer, Science and Technology Development
Fund, Macau SAR Government

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KEY PARTICIPANTS (A TO Z)

Tang Weng Chon *Senior Officer, Office of the Secretary
for Economy and Finance, Macau SAR Government*

Mikhail Chudakov *Deputy Director General of IAEA*

Yann Coelenbier *Founding Member of Monaco Hydrogen Alliance*

Gustavo Cortes de Lima *Ceo of GICORP*

Isolda Costa *Director of IPEN*

Franco Cotana *Deputy Director & CEO of RSE*

Alessandro Dodaro *Director of Nuclear Department (NUC) at ENEA*

Iong Nin Fai *Acting Head, Technology Department, Economic and Technological
Development Bureau, Macau SAR Government*

Roger Falcone *Professor of Physics, UC Berkeley; CSO of Alpha Ring International*

Ambrogio Fasoli *Associate Vice President of EPFL*

Gianluca Gregori *Professor of Physics, University of Oxford*

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KEY PARTICIPANTS (A TO Z)

Santiago Lucas Herrero Gonzalez *Founder & Ceo of BEE ON and President of Global Honey Organization*

Joseph Hun-wei Lee *President of the Macau University of Science and Technology*

Tai Kin Ip *Secretary for Economy and Finance, Macau SAR Government*

Adrian Ionescu *Professor at EPFL*

Che Weng Keong *President, Administrative Committee for the Science and Technology Development Fund, Macau SAR Government*

Peter Kurz *Chairman of Alpha Ring Asia*

Giovanni Landi *EMEA Manager of Alpha Ring International*

Marco Landi *President of Institut EuroplA*

Manfredi Lefebvre *Executive Chairman of Abercrombie & Kent Travel Group*

Paul Lin *Partner Akin Gump*

Emanuele Massarelli *Vice President EEI S.p.A.*

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Ida Liu *Former Global Head of Citi Private Banking*

Peter Liu *CEO of Alpha Ring International - Chairman of WI Harper*

Ali Munir *CEO & Founder of The Panarae Partnership,*

Carl Page *President of the Anthropocene Institute*

Massimo Pollio *CEO & Founder of Imagro S.p.A.*

HUEY-JEN SU *Chairman of NCKU Research & Development Foundation*

Heizo Takenaka *Professor Emeritus at Keio University*

Mark Thomas *CEO of First Light Fusion*

Liu Wei *Chairman, Beijing Wenhao Homer Science & Technology Co., Ltd.*

Kosta Yanev *Chairman of Activbody Inc.*