



nano  
factory

INTERNATIONAL  
CONFERENCE

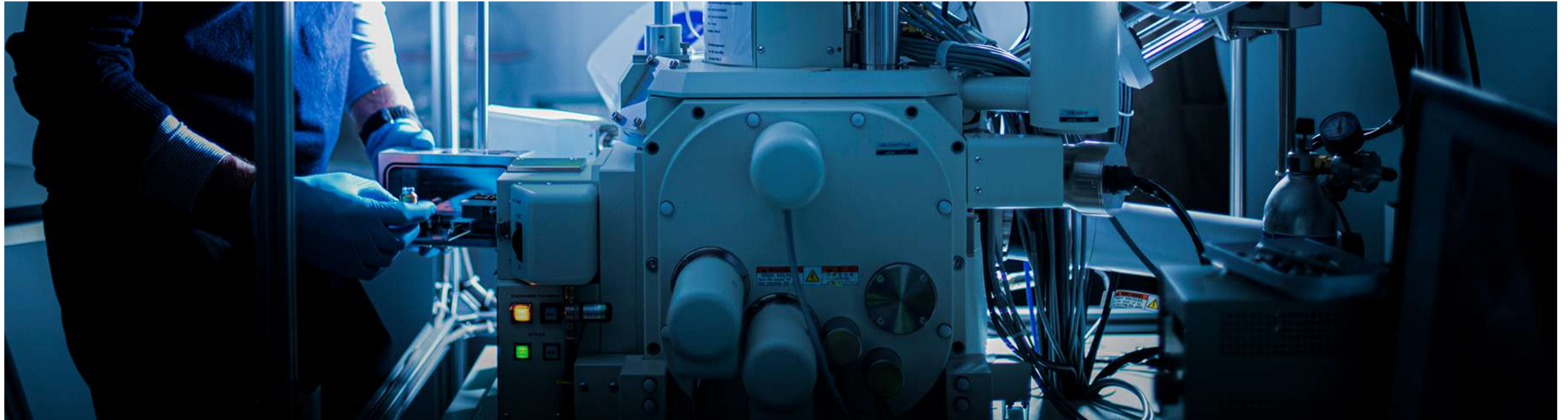
[www.nanofactory.net](http://www.nanofactory.net)

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March 29, 2024

PORTO · PORTUGAL





# Dear Reader

Our community is growing and becoming more vibrant every single day. Our ultimate goal is to reach everyone around the world and discuss one of the most important subjects: Energy.

At **Nanofactory** you find a global group of like-minded people, and future partners, with new perspectives and an unshakeable hope to improve our current standards. Your collaboration and participation in our events is a key part of our strategy. Together we believe we will have a global impact.

This year's event is reaching people from several countries worldwide. We would like to thank you, and let you know that we consider you as part of the **Nanofactory's** community. We are beyond grateful for your support, and we hope we can have you even more involved with our group. We have so much to achieve together.

Thank you,

*Nanofactory's team*





## Our Vision

Nanofactory provides people around the world the opportunity to hear the most remarkable leaders in the field. Our purpose is to empower everyone to join our efforts, and to provide everyone with the opportunity to learn from the top leaders in the field.

It is our mission not only to educate everyone, but also to serve as a platform where everyone can have an active role on making the future a reality.

It is our goals to inspire and empower each participant to become an active agent. We believe that everyone around the world will

be able to have a contribution for our common goals.

Regardless of where each participant lives, we are bringing everyone online, giving everyone the opportunity to participate in changing the current status quo, and giving everyone the opportunity to join this global effort, affordably, easily, and comfortably.

Our mission is to empower everyone to join our goals, by educating, and providing the proper tools for action, as well as by providing orientation and mentorship from the best in the world. We believe we make the world a better place... together...



# Program Overview

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nanofactory  
INTERNATIONAL CONFERENCE



## MORNING

(EST Time)

08:30am

REGISTRATION

09:00am

OPENING CEREMONY

09:30am

Talk  
CREA



Steven Garan, Ph.D.

[VIEW SPEAKER](#)

10:00am

Talk  
Livingston Securities



Scott Livingston

[VIEW SPEAKER](#)

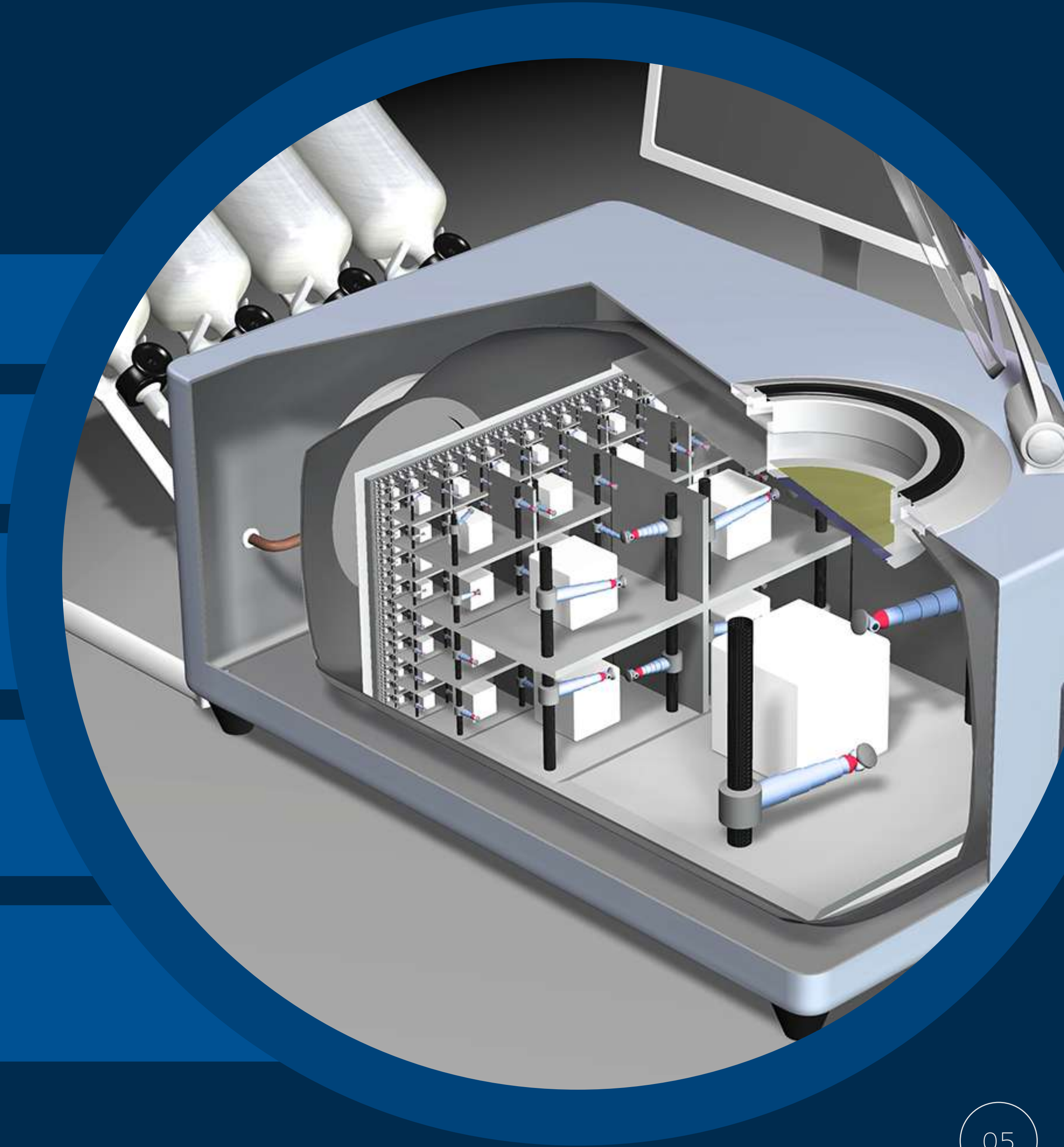
10:30am

Talk  
Nanotechnology



Nuno Martins

[VIEW SPEAKER](#)





## MORNING

(EST Time)

11:00am

Talk  
**University of Nottingham**



Philip Moriarty  
[VIEW SPEAKER](#)

11:30am

Talk  
**EDL**



Giorgio Gaviraghi  
[VIEW SPEAKER](#)

12:00pm

**PANEL**



**STEVEN A.  
GARAN**



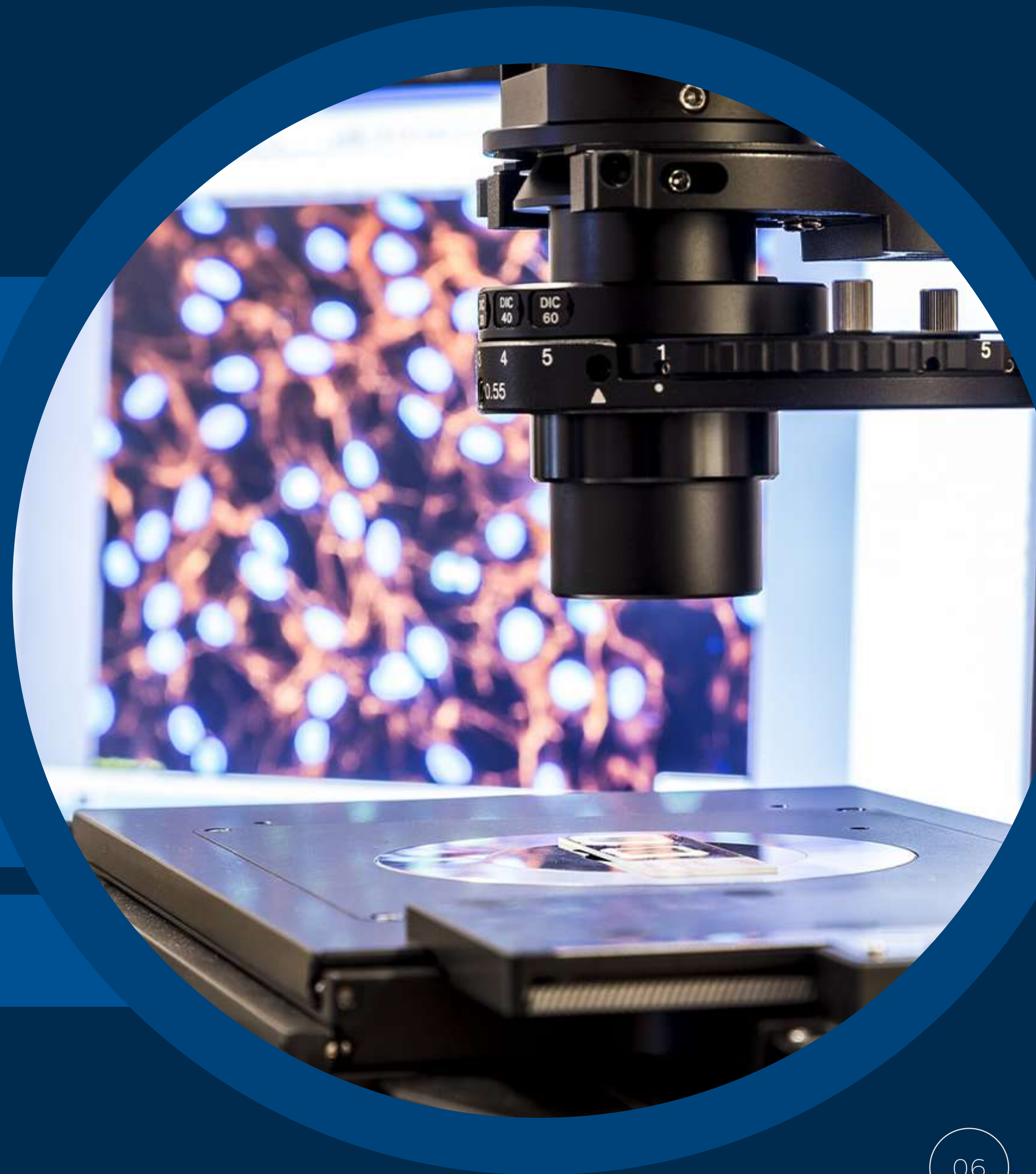
**SCOTT  
LIVINGSTON**



**NUNO  
MARTINS**

01:00pm

**LUNCH AND NETWORKING**





**AFTERNOON**  
(EST Time)

02:30pm

Talk  
**CREA**



Steven Garan, Ph.D.  
[VIEW SPEAKER](#)

03:00pm

Talk  
**EDL**



Giorgio Gaviraghi  
[VIEW SPEAKER](#)

03:30pm

Talk  
**Livingston Securities**



Scott Livingston  
[VIEW SPEAKER](#)



**AFTERNOON**  
(EST Time)

04:00pm

**PANEL**



**NUNO  
MARTINS,  
PH.D.**



**JAMES  
HUGHES**



**MARK A.  
VOELKER**

05:00pm

**CLOSING REMARKS**

05:30pm

**END OF CONFERENCE**





# Speakers



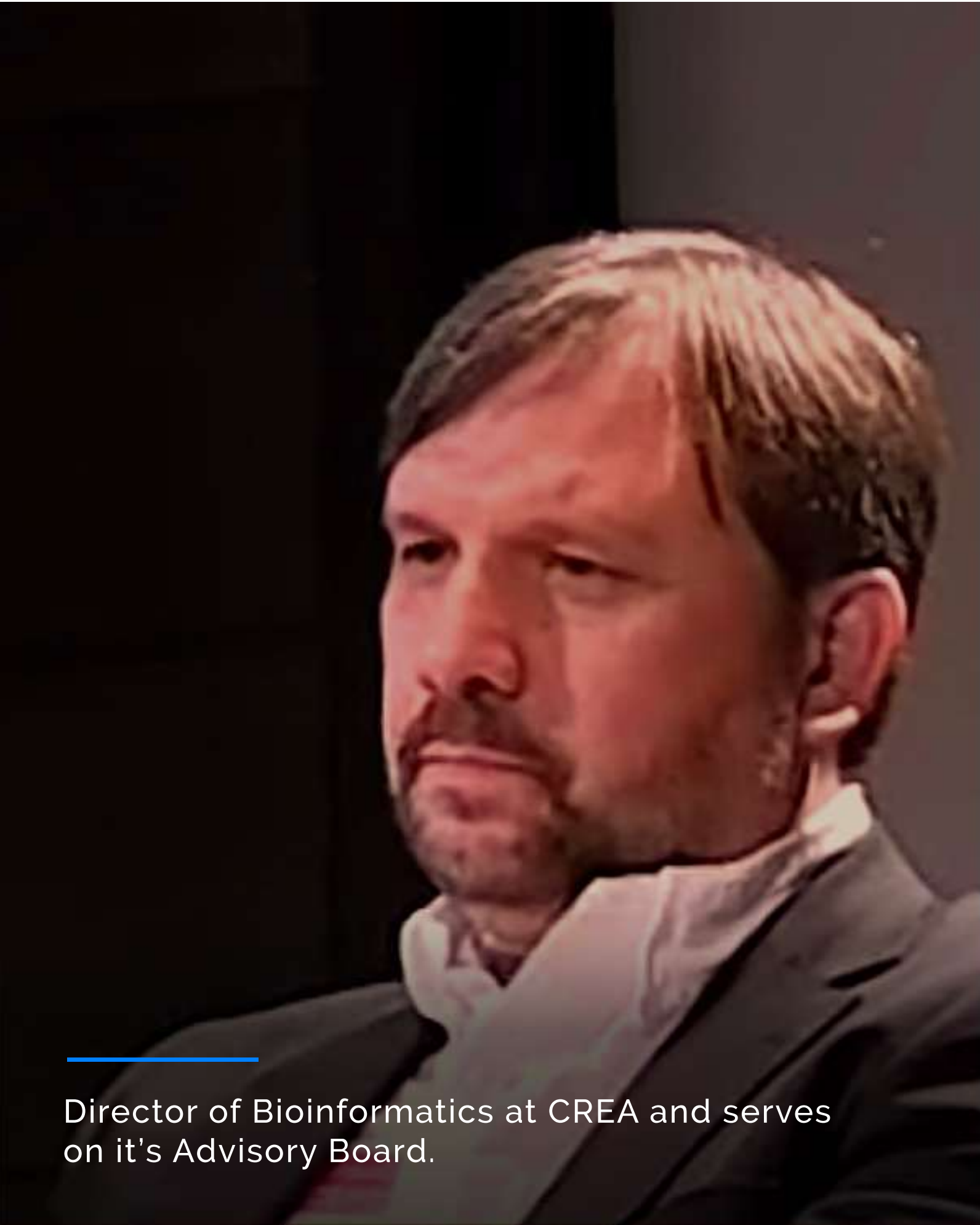


## Steven A. Garan, Ph.D.

Steven A. Garan is the Director of Bioinformatics at CREA and serves on its Advisory Board, he is also a researcher at the Lawrence Berkeley National Laboratory. While at the University of California, Berkeley, he played a major role in the invention and the development of the Automated Imaging Microscope System (AIMS). While at UC Berkeley, Garan collaborated for many years with a group from Paola S. Timiras's lab, on the role that caloric restriction plays in maintaining estrogen receptor-alpha and IGH-1 receptor immunoreactivity in various nuclei of the mouse hypothalamus. Garan was also the director of the Aging Research Centre, and is a leading scientist in the field of aging research. His numerous publications, include articles on systems biology, the effects of caloric restriction on the mouse hypothalamus and on the Automated Imaging Microscope System (AIMS). He is best known for the coining of word "Phenomics", which was defined in an abstract titled: "Phenomics: a new direction for the study of neuroendocrine aging", that was published in the journal *Experimental Gerontology*.

Steven A. Garan, was the lead scientists that developed the AIMS system along with Warren Freitag, Jason Neudorf and members of the UC Berkeley lab where AIMS was developed and utilized. Many journals articles have been published

about the system and the results that it produced. Since the completion of the first version in 1998, newer versions were developed, with the final version being completed in 2007. Empowering investigators to accurately count specific cell populations is essential to all fields of neurobiology. While computer assisted counting technology has been in use for over a decade, advances in an Automated Imaging Microscope System (AIMS), now insure 97% accuracy when comparing computer counts to human counts for both nuclear and cytoplasmic stained tissue. More importantly, regional analysis can now be customized so that only cell populations within specified anatomic regions will be targeted for counting, thus reducing the background noise of non-immunoreactive cells when characterizing specific cell populations. This application was recently used to successfully map the density and distribution of both nuclear expressed estrogen receptor-alpha and cytoplasmically expressed IGF-1 receptor in specific hypothalamic nuclei. Furthermore, AIMS can now detect intra-hypothalamic differences in receptor expression and measure phenomenon such as lateralization. By using this technology, the evaluation of tissue-level biology can be used to establish neuroendocrine biomarkers of aging, and analyze the neuroendocrine effects of caloric restriction and gene knockout models that extend the lifespan.



Director of Bioinformatics at CREA and serves on its Advisory Board.



## Scott Livingston

Mr. Livingston has been working on emerging technologies at Wall Street firms for 25 years and has specialised in nanotechnologies since 2002. Mr. Livingston has been called “sharp and highly connected” by the Forbes Wolfe Nanotechnology Report (July 1, 2005) and has been a keynote speaker on advanced technology investment trends in more than 30 states across America, including at MIT, the National Renewable Energy Lab (NREL), Brookhaven National Labs, Rice University Center for Nanotechnology, the Lawrence Berkeley Labs, Albany Nanotech, the President's National Economic Council, numerous US congressional committees.

In addition, the “Livingston Nanotechnology Conference,” is Wall Street's largest and longest running annual nanotechnology investor conference, now in its 10th year. Mr. Livingston has often been called “the King of Nanotechnology on Wall Street” and Livingston Securities was founded to change the way that innovation is financed on Wall Street and to connect people with their local innovation economy.

From 2005 to 2009 Mr. Livingston was a Managing Director at

Axiom Capital Management, Inc, and head of the Livingston Group, a division within Axiom focused on nanotechnology. From 2000 to 2005 Mr. Livingston was a Director in the Private Investment Management Division at Lehman Brothers.

While at Lehman in 2002, Mr. Livingston began his focus on nanotechnology and started to cover the field for institutional and individual investors. From 1996 to 2000, Mr. Livingston served as a Director in the Private Client Group at Cowen & Co (later renamed SG Cowen Securities), where he was a member of the Chairman's Club from 1998 to 2000 the firm's highest honor for private client management.

While at Cowen, Mr. Livingston focused on emerging technology trends, including genomics, Y2K preparedness and defense technologies. From 1993 to 1996 Mr. Livingston was a Senior Vice President in the Private Client Group at Smith Barney Inc. Mr. Livingston was named a Senior Vice President in 1993, at the age of 24, one of the youngest appointees for the firm at that time. Mr. Livingston is a Board Member of the Nanobusiness Alliance and a founding Board Member of the New York Nanobusiness Alliance.



Chairman and chief executive officer of  
Livingston Securities LLC.



## Nuno Martins, Ph.D.

Nuno is a polymath, a researcher, an entrepreneur, and a life and health extension advocate. As a polymath, he usually likes to make use of different subject areas, drawing ideas and concepts from different bodies of knowledge to solve specific problems.

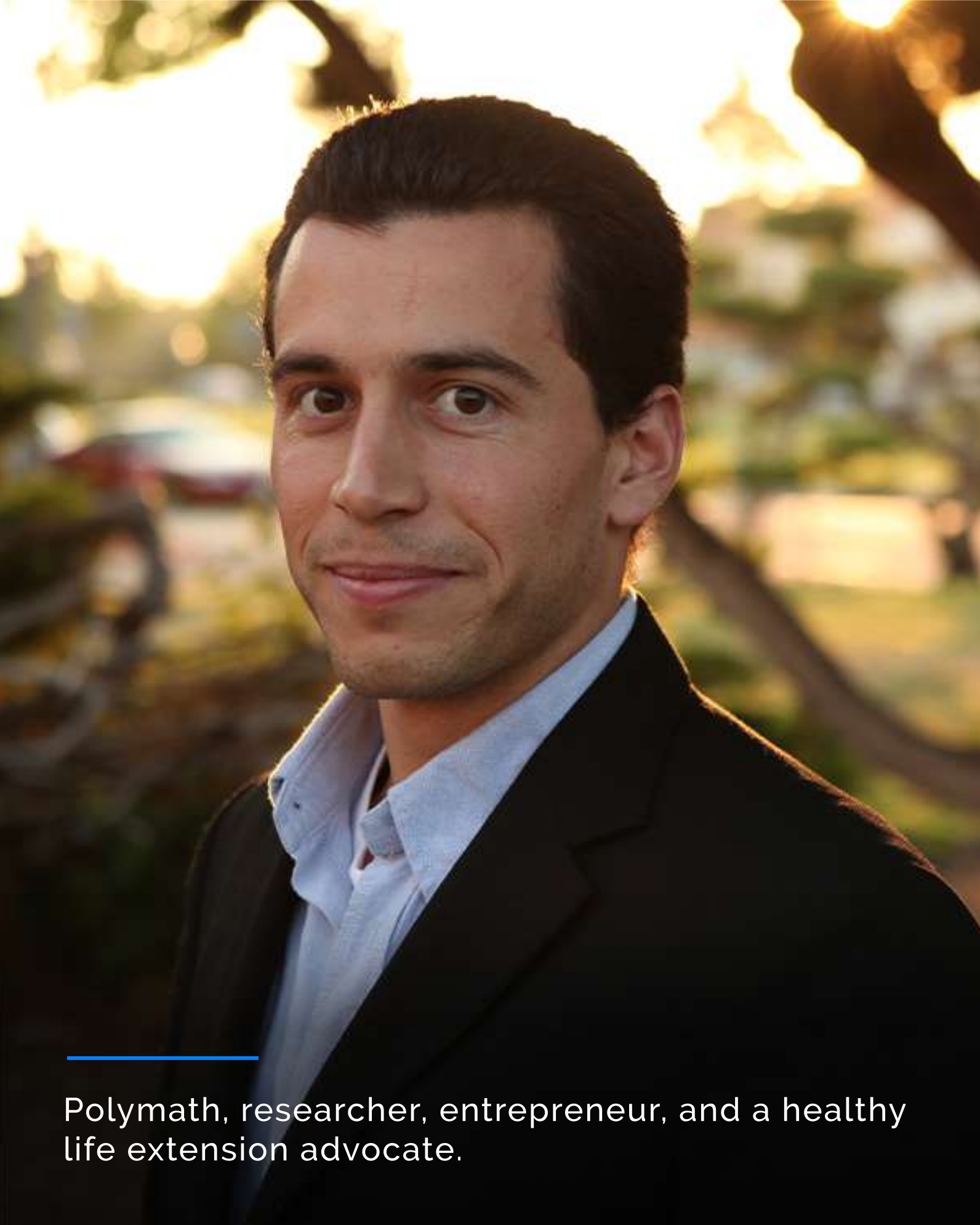
As an illustrative example, his published papers involve several fields of research, for example: quantitative neuroscience, computer science, nanotechnology, robotics, and others. Several previous education experiences have supported and nurtured his polymath approach to problems. As a researcher, he is interested in any scientific, engineering, or technological development with potential applications or consequences for healthy life extension. Along these lines, he is currently focused on developing technologies for human healthy life extension.

In business, he created his own company to fund his education. Along the way, several academic awards and grants contributed to his necessary funding strategy. The growth of his original company permitted him to create a business group embracing a set of different companies that operate in a large spectrum of business sectors, including: business consulting, education, information

technologies, healthcare services, online sales, and several others.

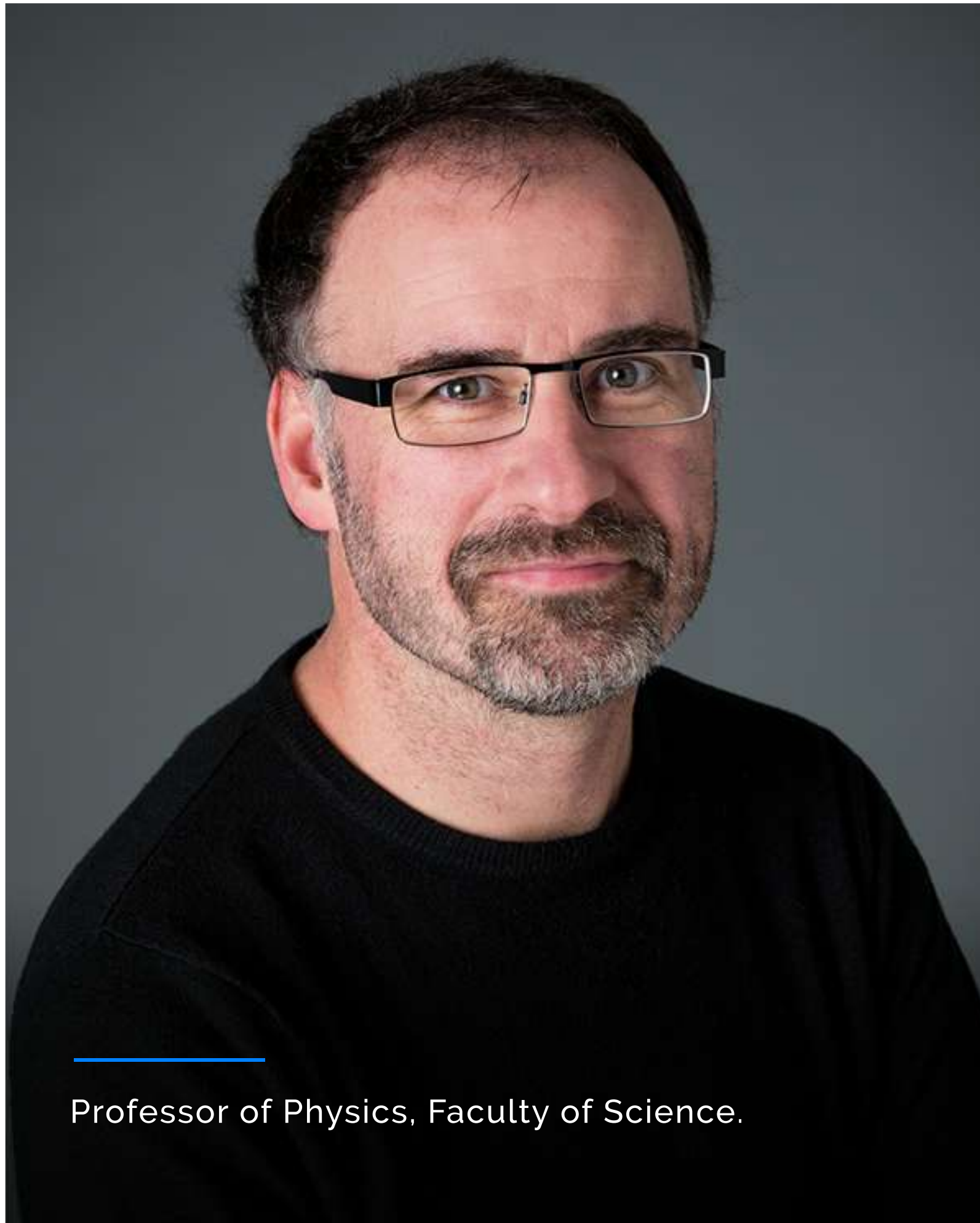
On life extension related topics, early in his life, motivated to take control of his own health he decided to make several courses related to health-care, body training and nutrition. Thus, he completed several courses related to life and health care, for example, he is a swimming teacher, a professional tennis teacher, a body-building and aero- fitness teacher, a power-lifting professor, and he completed also several courses in nutrition and sleep optimization.

As public speaker Nuno participates in conferences and meetings providing high quality professional presentations in his style. One of Nuno's public appearances was on a groundbreaking large conference (attended by approximately one thousand attendees), where Nuno presented along with amazing celebrities, such as: the visionary billionaire Peter Nygard, the always inspiring Suzanne Somers, and the famous futurist Ray Kurzweil, among many other celebrities... Nuno makes easy the understanding of technical challenging subjects, making accessible to the general audience the most difficult problems.



Polymath, researcher, entrepreneur, and a healthy life extension advocate.





## Philip Moriarty

Philip Moriarty is a professor of physics at the University of Nottingham. His research is what has occasionally been described as “extreme nanotech” in that he works alongside a talented bunch of nanoscientists to prod, poke, push, pick, and pull individual atoms and molecules in order to explore forces and interactions down to the single chemical bond limit.

Moriarty also has a keen and long-standing interest in science communication and public engagement. He is a member of the Sixty Symbols

([www.youtube.com/sixtysymbols](http://www.youtube.com/sixtysymbols)) team that was awarded the Institute of Physics Kelvin prize in 2016 for “innovative and effective promotion of the public understanding of physics”. While he doesn’t share his infamous namesake’s fascination with the binomial theorem, Moriarty enjoys exploring the maths-music-physics interface including, in particular, the deep and fundamental links that exist between quantum mechanics and heavy metal music (a theme discussed at length in his book, “When the Uncertainty Principle Goes to 11”). He blogs at [muircheartblog.wordpress.com](http://muircheartblog.wordpress.com).





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Physicist and optical engineer.

## Mark A. Voelker, Ph.D.

Mark Voelker, 63, is a physicist and optical engineer currently living in Las Vegas, Nevada. He is building an astronomical observatory which will be accessed and controlled online by professional and amateur astronomers. In addition to astronomy and physics, he is interested and active in cryonics, life extension, and the economics and history of money and banking. He earned a doctorate in Optical

Sciences from the University of Arizona in 1993 and has done engineering and research in infrared astronomy, scanning probe microscopy, hyperspectral imaging, cryopreservation, and high pressure physics. He served on the Board of Directors of the Alcor Foundation in Scottsdale, Arizona from 1992-1999 and currently serves on the Board of the United Precious Metals Association in Alpine, Utah.



## Giorgio Gaviraghi

Giorgio Gaviraghi received his Architectural degree from the Milan Polytechnic. He has since taken part in a number of graduate courses in management, marketing and design in several major universities.

At first as Project Architect, later as Project Manager, where he was responsible to deal with international projects for the Austin Co. an international design and construction company, he has built a distinguished career across the globe. He has acted as CEO for international companies operating in Europe, the US, Latin America and the Middle East in the field of design and construction, aerospace facilities, real estate and touristic resorts development.

In several capacities he was responsible for major initiatives, some worth over 5\$US, such as the design and project management for the reconstruction of thousands of buildings damaged by the Friuli earthquake, an aerospace facility for commercial aircraft final assembly for Aeritalia - Boeing, an aircraft overhauling facility for HAI in Greece, advanced testing facilities for SDI initiative in the US, high rises buildings in New York, several touristic resorts in Sardinia and the Red Sea region.

An achiever of international competitions in innovative products and systems for industrial design. Giorgio has specialized in space architecture for advanced projects and proposals for major space agencies. Winning as tutor for college and high school students over 18 prizes in international space settlements and space related projects.

Partner of the MAAT project consortium for revolutionary airship-based air transportation system sponsored by the EU. Founder of the Star Voyager organization for the advancement of space development and interstellar travel.

Founder and CEO of edl (exponential design lab) in Latin America specialized in advanced and global projects. Author of over 80 papers ranging from space, transportation, city planning, design and other topics, including authoring articles and books, the latter Global Challenges by Lambert Pub.

Delivered several courses at universities in Europe and Latin America. Actually professor at UFMT in Brazil, teaching Exponential Creativity a disruptive post graduate course.

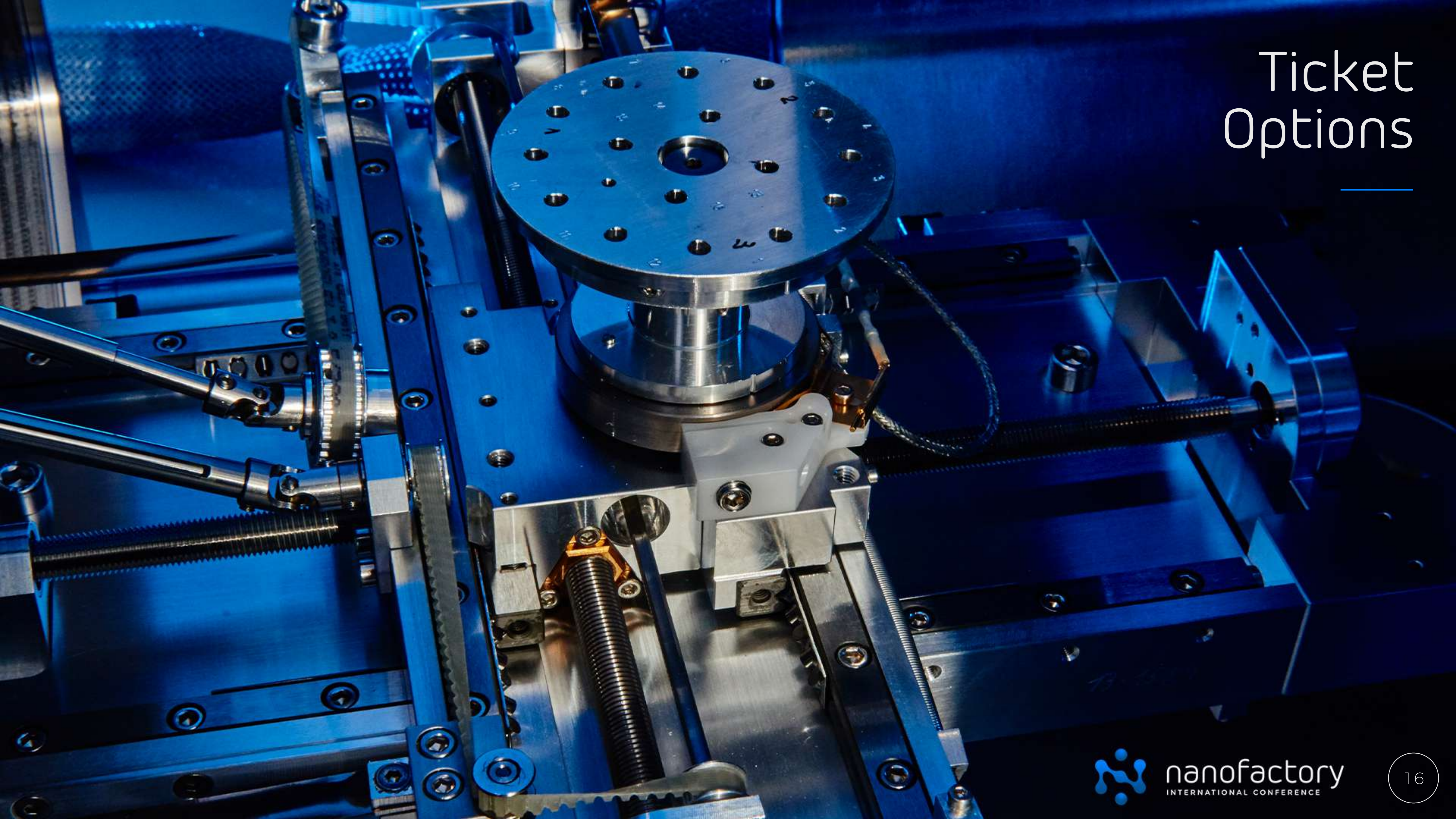


Founder and CEO of EDL.



# Ticket Options

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ONLINE

€159

BUY TICKET NOW

- ✓ Access to all conference talks
- ✓ Access to all panels
- ✓ Meet other attendees
- ✓ Explore all livestream topics covering current biggest trends
- ✓ Network and connect with our speakers and participants
- ✓ Upskill through our experts knowledge
- ✓ Make valuable connections within our global network
- ✓ Meet the world's most exciting companies in the space

ESSENCIAL

€745

BUY TICKET NOW

- ✓ Full access to all talks
- ✓ Full access to all panels of debate
- ✓ Full access to Expo Area

VIP

€1230

BUY TICKET NOW

- ✓ Full access to all talks
- ✓ Full access to all panels of debate
- ✓ Full access to Expo Area
- ✓ **VIP** seating
- ✓ Access to Event Platform Premium section

PREMIUM

€2460

BUY TICKET NOW

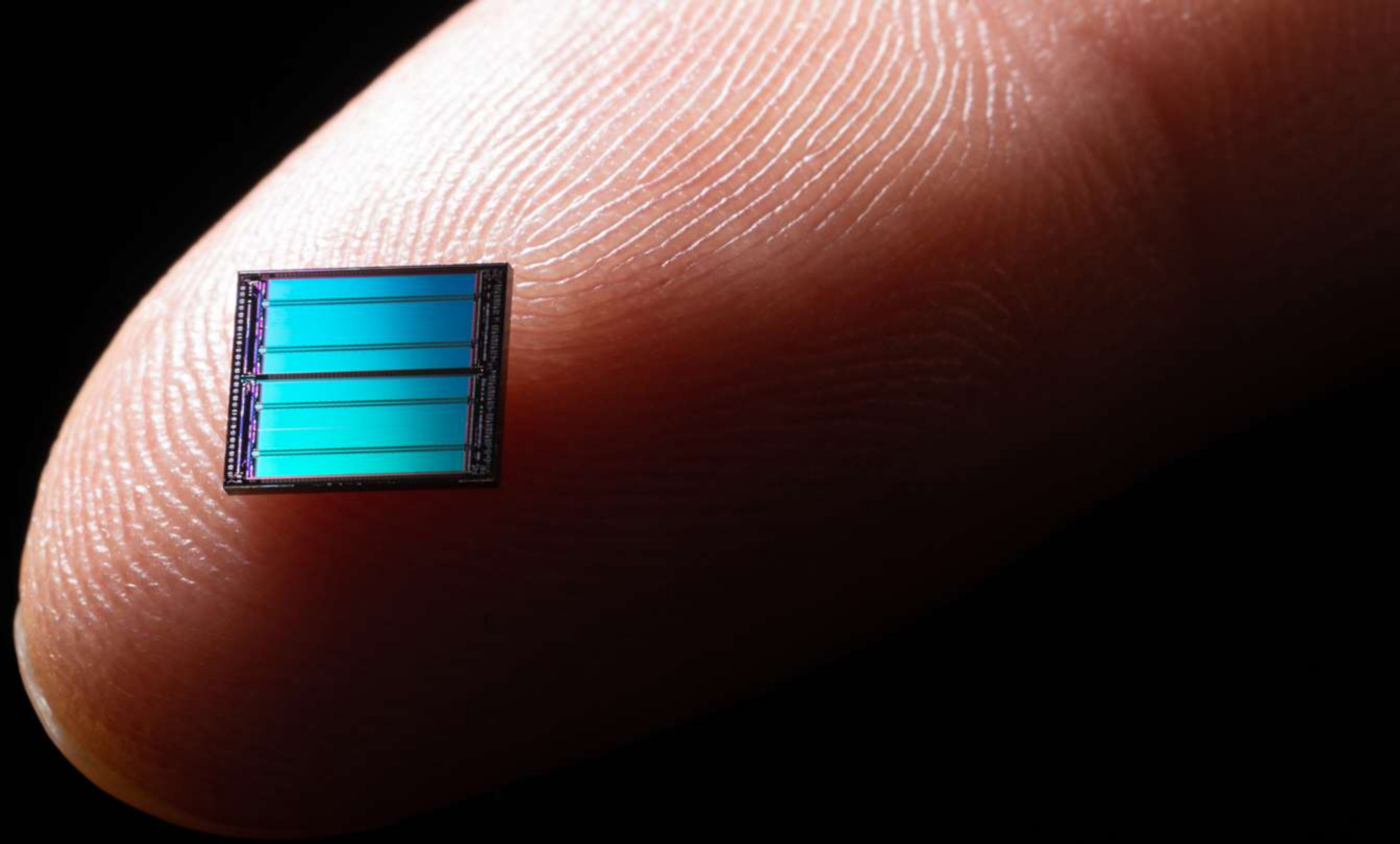
- ✓ Full access to all talks
- ✓ Full access to all panels of debate
- ✓ Full access to Expo Area
- ✓ **PREMIUM** seating
- ✓ Access to Event Platform Premium section
- ✓ Pen Drive (with Full-Event Recording with all talks and panels)
- ✓ **Networking with speakers** (including lunch with speakers and private introduction)





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