www.envisionhumanity.com

JANUARY 20,
2024

PORTO
PORTUGAL

INTERNATIONAL
CONFERENCE

Dear Reader,

Our members are a group of brave geniuses who support our mission. Envision humanity members are contributors to envision and creating a better future, fuelling the capacity to solve problems, helping create and nurture companies and prize competitions for enhance outreach. Envision humanity members' input is vital for our society long-term focus and success.

Our envision humanity members are a group of actively engaged people focused on strategic topics such as defining our areas of focus. The envision humanity group also works on identifying strategic partners and opportunities. Envision humanity members work closely with a group of investors to provide the seed capital necessary to design, fund and launch companies and competitions as well as support our ongoing mission. Envision Humanity members underwrite the design and planning of future companies and competitions. With our supporters, we help define the next companies and prizes, that can best solve the technological, market, behavioural, and policy failures that are in some cases preventing breakthroughs in different areas.

Our teams identify the competition structure that will attract global teams, and define the marketing and educational extensions that will bring about the greatest awareness and engagement from the general public. Lastly, we develop the metrics for assessing the impact of a company or prize so that we can measure how the company, or prize, has created, or catalysed, new industries aimed to solve a specific problem.

Envision humanity members help providing the right support for companies and prize competitions. The funds are used to launch, operate and award the prizes and companies. The prizes are only awarded once a team, or company, achieves a measurable, objective goal.

Our team thanks all the members of envision humanity for their vision and contribution for our company mission.

Thank you,

Envision Humanity Team

Our Vision

INCENTIVISE
An incentivised prize competition is a technique to direct humanity's focus for an achievable goal, that might help solve a global problem, helping change the world.

INSPIRATION
Our prizes aim to captures the world's attention, the media attention, and inspire teams from all over the world to focus their energy and skills to solve the defined goals, stimulating innovation. Our prizes aim to solve audacious goals, achievable goals believed to be achievable in a 3-5 years time horizon. We aim to focus human potential on critical problems, which currently does not have a clear path towards a solution.

FOCUS
We define the problem and frame the challenge. Our goal is not to show the path for the solution but to defining the problem, and the challenge, and incentivise the teams, from all over the world, to find the most effective solutions. Everyone can compete for the prizes, from the world-famous industry experts to well-funded high school students.

MISSION
One of our main missions is to enable innovators from all around the world to attract capital to support their goal of winning the prize. We provide the inspiration and vision of a better future, and the winning teams will join us proving that the worlds impossible problems can in fact be solved.

At Envision Humanity we will be asking the big questions: What are the biggest problems we face that are not being solved? Why aren't business, philanthropy or government getting the job done? Who is out there who could solve this problem, but isn't being asked? These are the questions we ask at Envision Humanity Group, as we convene the world's foremost thinkers to help us improve Humanity.

Worldwide Map

ENVISION HUMANITY

Europe
France • Germany • England • Italy
Portugal • Spain • Greece

North America
USA • Canada

South America
Brazil • Ecuador

Africa
Angola

Asia
India • Russia
Japan

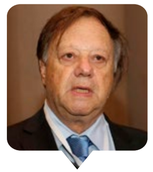
Program Overview

MORNING
(EST time)

08:30am REGISTRATION

TALK - 09:00am
Carl Berman, Ph.D.

TALK - 9:30am
Environment
Mathis Wackernagel, Ph.D.



TALK - 10:00am
Giorgio Gaviraghi

TALK - 10:30am
Healthcare
Rachel Kiddell-Monroe

TALK - 11:00am
Energy
Mike Snead, P.E.

TALK - 11:30am
Education
David Cavallo Ph.D.

TALK - 12:00am
Lisa Gable

12:30pm PANEL
Carl Berman, Ph.D.
Mathis Wackernagel, Ph.D.
Giorgio Gaviraghi
Rachel Kiddell-Monroe
Mike Snead, P.E.
David Cavallo Ph.D.
Lisa Gable

01:00pm LUNCH TIME

Program Overview

AFTERNOON

(EST time)

TALK - 02:30pm
Environment
Lauren Fletcher

TALK - 03:00pm
Joyce Gioia

TALK - 03:30pm
Water
Nigel Cameron

04:00pm

PANEL

Lauren Fletcher
Nigel Cameron
Joyce Gioia
Nuno Martins, Ph.D.

05:00pm

END OF CONFERENCE

ENVISION HUMANITY

Speakers

Speakers

ENVISION HUMANITY

DAVID CAVALLO PH.D.

Consulting Learning Architect to the Fab Foundation and Special Consultant to the Director of the South End Technology Center (SETC).

> David Cavallo, Ph.D. is consulting Learning Architect to the Fab Foundation and Special Consultant to the Director of the South End Technology Center (SETC).

David Cavallo, Ph.D. is consulting Learning Architect to the Fab Foundation and Special Consultant to the Director of the South End Technology Center (SETC). Cavallo concentrates on how digital fabrication and computation can dramatically improve learning in schools and communities. His work focuses on how creative and constructive uses of computational technologies potentially create learning opportunities that otherwise are extremely difficult to obtain at large scales and with equitable access.

Cavallo is currently coordinating an innovative new collaboration among SETC, the Fab Foundation, MIT Center for Bits and Atoms, the Mayor's office of the city of Boston, and Boston Public Schools titled Hands-Heads-Hearts: Machines Making Machines (H3M3) at Boston's Madison Park Technical Vocational High School.

The project has several ambitious goals. One is to help re-invent technical/vocational education for the modern era, by providing access to learning computation and digital fabrication in order to enable advanced manufacturing, new business creation, and development of new solutions specific to local communities and issues, while also overcoming limitations of obsolete methods of instruction. Another key idea is to use design and construction using advanced computational and digital technologies to improve learning across the curriculum, particularly in Science, Technology, Engineering, and Mathematics (STEM). The project begins by having students and teachers

make their own digital fabrication machines in order to understand the principles, and then make what they need from their machines and other digital fabrication tools to make what is needed for their learning and for their communities. The idea of self-replicating machines not only reduces costs to outfit new schools, but also is a foundational idea of mindful making, that is, learning through construction and reflection.

David Cavallo was Professor Titular Visitante and a founding faculty member at the Federal University of Southern Bahia (UFSB), a new public university serving the rural areas of the south of the state of Bahia. At UFSB he collaborated with colleagues to design, develop and teach new courses on computational thinking which all students take as part of their general formation, as well as robotics for education, inter-disciplinary courses that use computation and computational environments, ways the university can help improve basic education in the region, and ways to use technology to support active, collaborative learning and to overcome the barriers of distance and the lack of experienced teachers for all students.

Prior to joining UFSB Cavallo was the Vice-President for Education and Chief Learning Architect at One Laptop per Child (olpc). Cavallo led the learning team, worked internally and with partners to design and develop the low-cost, low-power, ecological laptop for learning for children, and then worked with countries to develop materials and local teams to support the transformation of public education to enable equitable access to high-quality education.

Cavallo was a Research Scientist and co-Director with Seymour Papert of the Future of Learning Group at the MIT Media Laboratory. His research focus is on how we can better facilitate human learning using computational technologies. The group developed new digital technologies and new content that, combined with developing new theories of human learning, led to launching innovative learning projects in the U.S. and numerous other countries.

Prior to MIT, Cavallo led the design and implementation of a new medical informatics system as part of a reform of health care delivery and management at the Harvard University Health Services. The goals of the system were to improve quality of care, increase access, and facilitate administration of medical care. The system was designed to be secure and still open. Perhaps most importantly, the goal was to enable learning by both providers and participants through developing technological fluency among all.

He was a Software Principal Engineer in Digital's Artificial Intelligence Group and was also the founder of the Advanced Technology group for Digital's Latin American and Caribbean Region. He also worked as a software engineer at Infocom and Data General, and as a freelancer. Cavallo holds a Ph.D and Master of Science degree from the MIT Media Laboratory in Media Sciences focusing on learning and technology with Seymour Papert as his advisor, and studied Computer Science at Rutgers University.

Speakers

ENVISION HUMANITY

LISA GABLE

CEO FARE, Former US Ambassador, Author and Corporate Executive.

> Lisa's proven turnaround methods have helped her move organizations to higher levels of performance by creating sustainable partnerships and profitable business models

LISA GABLE is recognized worldwide as a turnaround mastermind. As CEO of several organizations, and as a former Presidential appointee, US Ambassador, UN Delegate, and advisor to Fortune 500 companies, Lisa has orchestrated and executed the successful turnarounds of well-known private and public organizations in all industries and sectors. She is highly regarded in business, political, and philanthropic circles for her ability to tackle difficult issues directly and with discipline and diplomacy.

Over the years, Lisa's proven turnaround methods have helped her move organizations to higher levels of performance by creating sustainable partnerships and profitable business models that have brought together political parties, corporate competitors, and even disparate nations. She is currently the CEO of FARE, the world's largest funder of food allergy research. Prior to leading FARE, she was a senior advisor at PepsiCo and President of the Healthy Weight Commitment Foundation where she worked on cross-sector solutions to improve intractable public health issues. From 1994 to 2009, she was a founding principal of The Brand Group, an advisory firm dedicated to helping companies such as Apple, Gap Inc., Intel, Oracle, Radisson Hotels, GI Film Festivals, and more implement change strategies.

In 2004, she was appointed by President George W. Bush as the first woman in World's Fair's 150-year history to direct the U.S. Pavilion, a 100 percent non-federally funded $33.7 million operation with more than 70 employees. She completed operations with the first budget surplus in the history of the World's Fair, an achievement publicly recognized in a Senate proclamation in 2005. Earlier in her career, Lisa worked in high tech as corporate identity manager at Intel, in the White House as deputy associate director of presidential personnel, and in the US Department of Defense as a special assistant in the Technology Transfer Policy department.

Lisa was named one of the 10 Most Innovative Businesswomen in 2020 by The Business Berg. An entrepreneur and mentor, Lisa acts deliberately to move organizations and individuals toward their full potential. In the past, she served as the founding chair of the board of directors for the Foundation for a Smoke-Free World; has been a national trustee of the Boys and Girls Club of America and on the board of directors of Girls Scouts of the USA; a board of trustee of Thunderbird School of Management; a member of the National Academy of Medicine IOM Roundtable on Obesity Solutions; and board member of the Independent Women's Forum. She is also a mentor in organizations such as Rare as One project, a Chan Zuckerberg Initiative.

A sought-after speaker she has given keynotes and presentations for the Clinton Global Initiative, National Institutes of Health, National Collaborative on Childhood Obesity Research, Bridging the Food Industry and Public Health Divide, the Newseum, CONMEXICO, Women Leading Women, and numerous corporate and nonprofit domestic and international conferences and events. Lisa has been featured in media outlets including NBC Nightly News with Lester Holt, the Today Show, the New York Times, The Hill, PBS Newshour, and a wide variety of scientific journals, podcasts, and top U.S. daily newspapers.

A proud mom to a Montessori teacher, Lisa lives in Washington, DC, with her husband, a high-tech entrepreneur.

Speakers

ENVISION HUMANITY

"The Space Review article Aerospaceplanes and Space Solar Power said"

MIKE SNEAD, P.E.

Professional engineer and author focused on space-based solar power and astrologistics

Taylor Dinerman's recent essay, The chicken and the egg: RLV's and space-based solar power, raised several important questions regarding the next generation of space access capabilities. Specifically, he drew attention to the recent National Security Space Office (NSSO) summer study on space-based solar power (SBSP) that included discussions about the spacefaring logistics capabilities that would be needed. He addressed his questions, rhetorically, to the authors of the study. As the primary author of the Appendix D of the report that focused on the needed logistics capabilities, I would like to respond to his questions and expand upon several of the points raised.

First, a little background on the preparation of the study. The NSSO SBSP study was not, as noted in the report, a traditional government study. The preparation efforts were not conducted under government contract, as are most such studies. Rather, the reach and flexibility of the Internet were exploited to gather knowledgeable volunteers to address the broad issue of SBSP broken down into these areas: politics, policy, and law; science and technology; logistics infrastructure; and, business case analysis. The NSSO, with the assistance of the Space Frontier Foundation, facilitated these efforts, but did not direct the efforts. While the main body of the final report was generally written by NSSO members, it was based on the inputs of the four breakout groups. This approach provided substantially greater flexibility in introducing new and different ideas into the debate.

James Michael "Mike" Snead, MS, P.E. was the author of this article and is an aerospace consultant focusing on near-future space infrastructure development including commercial human spaceflight, advanced subsonic multi-mission aircraft (tanker/airlifter/air power platform), and nuclear physics research (thermal neutron capture). He worked with the United States Air Force from 1970 to 2007 at Wright-Patterson Air Force Base, OH. During his Air Force employment, he participated in flight readiness Executive Independent Review Teams supporting the first flights of the F-16XL, TR-1, YF-22, and YF-23.

His Air Force days included him as Lead, Agile Combat Support, Aeronautical Systems Branch, Air Systems Division, Plans and Programs Directorate, Air Force Research Laboratory (AFRL/XPAS) from 2004 to 2007, Modeling and Analysis Division, Plans and Programs Directorate, Air Force Research Laboratory (AFRL/XPZ) from 1998 to 2004, Directorate of Science & Technology, HQ Air Force Materiel Command (HQ AFMC/ST) from 1992 to 1998, Lead Structures Engineer, Structures Division, Deputy for Engineering, Aeronautical Systems Division (ASD/ENFS) from 1989 to 1992, Chief Flight Systems Engineer (Phase I) / Lead Structures Engineer (Phase II), Systems Engineering, National Aerospace Plane Joint Program Office (NASP JPO/EN) from 1986 to 1989, Project Engineer, Transatmospheric Vehicle (TAV) Project Office, Deputy for Development Planning, Aeronautical Systems Division (ASD/XR) from 1984 to 1986, and Strength Branch, Structures Division, Deputy for Engineering, Aeronautical Systems Division (ASD/ENFSS) from 1974 to 1984.

Speakers

ENVISION HUMANITY

NIGEL CAMERON

President Emeritus, Center for Policy on Emerging Technologies.

"A native of the UK, Nigel Cameron has spent much of his professional life in the United States."

Former President and CEO of the Center for Policy on Emerging Technologies in Washington, DC, he is a Senior Fellow of the University of Ottawa's Institute for Science, Society and Policy, where he was recently Fulbright Visiting Research Chair in Science and Society. He was earlier Research Professor and Associate Dean at the Illinois Institute of Technology, where he led projects on the social impact of developments in biotechnology and nanotechnology, and the policy implications of diabetes.

Cameron has been a featured speaker at a range of international events, including the Aspen Ideas Festival and Global Health Forum, Planet under Pressure (UNESCO/Royal Society prepcon for Rio+20) (London), the Champalimaud Foundation conference on the world in 100 years (Lisbon), TEDx Port Alegre (Brazil), the World Healthcare and Innovation Technology Summit (Washington, DC), the STARS emerging leaders conference (Switzerland), the Economist Asia Investors Summit (Hong Kong) and conference on the digital economy (Madrid), and most recently a UN Human Rights Council expert consultation on AI and human rights.

He has also chaired many international conferences at the interface of technology, business, and policy, including the GITEX and Future Tech events in Dubai, conference series on the Internet of Things in Brussels and Washington, DC, and the European Identity and Cloud conference in Munich.

He has testified to committees of both U.S. Houses of Congress, on issues including nanotechnology and the security implications of emerging technologies, and to the European Parliament and the European Commission's science and technology Group on Ethics. He has also served on U.S. Government diplomatic delegations to the UN General Assembly and UNESCO. He served four terms as a Commissioner of the U.S. National Commission for UNESCO, including as chair of its Social and Human Sciences Committee. In the early 2000s he served as a member of Project Horizon, a U.S. Government inter-department strategic planning exercise led by the Department of State; and was also the U.S. Government's nominee (unsuccessful) to the U.N. Human Rights Council for Special Rapporteur for the Right to Health.

He has written and edited a number of books on the impact of emerging technologies, including Nanoscale: Issues and Perspectives (Wiley) and Will Robots Take Your Job? A Plea for Consensus (Polity/Wiley), which has just appeared in Chinese. He also served as first tech editor of the UK journalistic website UnHerd. He has appeared on network media in several countries, including on ABC Nightline and PBS Frontline in the US, and BBC Newsnight and Breakfast with Frost in the UK.

On the corporate side, he is currently a non-executive director of Genesis Systems LLC, a U.S.-based start-up developing innovative technologies for air-generated water. He has been a columnist for the U.S. Chamber of Commerce on corporate social responsibility and tech, and served as adviser to corporations including Constellation Research and Giesecke & Devrient. Three times he has been executive-in-residence at Wolfsberg, the UBS executive development center in Switzerland. He is also on the committee of HumanIN, a start-up advisory on the human dimensions of AI.

He is a graduate of Cambridge and Edinburgh universities, and the Edinburgh Business School.

Speakers

ENVISION HUMANITY

MATHIS WACKERNAGEL, PH.D.

President of Global Footprint Network

Mathis Wackernagel is co-creator of the Ecological Footprint and President of Global Footprint Network. In 1994, he completed a Ph.D. in community and regional planning with Professor William Rees at the University of British Columbia, where his doctoral dissertation developed the Ecological Footprint concept. Mathis also earned a mechanical engineering degree from the Swiss Federal Institute of Technology.

In 2003, he co-founded Global Footprint Network, an international sustainability think-tank with main offices in Oakland (California); also legally established in Switzerland. This international think-tank focuses on bringing about a sustainable human economy in which all thrive within the means of our one planet. It recognizes that qualitative improvement, such as biodiversity preservation, cannot be meaningfully scaled up as long as basic quantitative conditions for sustainability are not met, such as the need for humanity to live within the regenerative budget of Earth.

Given that the only long-term option for humanity is to live off the planet's regeneration (rather than its liquidation), Global Footprint Network uses Ecological Footprint accounting as a key metric to influence decision-making. These accounts compare all the competing demands on nature's regeneration with the amount nature can renew.

Mathis has worked on sustainability with governments, corporations and international NGOs on six continents and has lectured at more than a hundred universities. He previously served as director of the Sustainability Program at Redefining Progress in Oakland, California, and ran the Centro de Estudios para la Sustentabilidad at Anáhuac University in Xalapa, Mexico. Mathis has authored and contributed to more than 100 peer-reviewed papers, numerous articles, reports and various books on sustainability that focus on embracing resource limits and developing metrics for sustainability, including Our Ecological Footprint: Reducing Human Impact on the Earth; Sharing Nature's Interest; Der Footprint: Die Welt neu vermessen; Ecological Footprint: Managing Our Biocapacity Budget; and WWF International's Living Planet Report.

Mathis' awards include the 2018 World Sustainability Award, the 2015 IAIA Global Environment Award, being a 2014 ISSP Sustainability Hall of Fame Inductee, the 2013 Prix Nature Swisscanto, 2012 Blue Planet Prize, 2012 Binding Prize for Nature Conservation, the 2012 Kenneth E. Boulding Memorial Award of the International Society for Ecological Economics, the 2011 Zayed International Prize for the Environment (jointly awarded with UNEP), an honorary doctorate from the University of Berne in 2007, a 2007 Skoll Award for Social Entrepreneurship, 2006 WWF Award for Conservation Merit and 2005 Herman Daly Award of the U.S. Society for Ecological Economics. He was also selected as number 19 on the en(rich) list identifying the 100 top inspirational individuals whose contributions enrich paths to sustainable futures (www.enrichlist.org). John Elkington identified Mathis among the "Zeronaut 50" Roll of Honor, i.e., leading pioneers who are driving the world's most significant problems to zero. From 2011 to 2015, Mathis was also the Frank H. T. Rhodes Class of 1956 Visiting Professor at Cornell University.

> Mathis Wackernagel is co-creator of the Ecological Footprint and President of Global Footprint Network

Speakers

ENVISION HUMANITY

JOYCE GIOIA

Joyce is listed in Who's Who in America, Who's Who in the East, and the International Who's Who of Business Executives.

Joyce Gioia is a Strategic Business Futurist concentrating on relationship aspects of the future. This arena includes workforce and workplace trends, as well as consumer, education, and business-to-business trends. Joyce is President of The Herman Group, a firm serving a wide range corporate, trade association and governmental clients on an international basis. Through consulting, speaking and training, Joyce helps clients position themselves for success in the future. Joyce has served clients on six continents and in 43 states.

Focusing on what will be most valuable for her clients and audiences, Joyce tailors her messages to what is most needed with an emphasis on take-home value, practical tactics and strategies that can be put to work right away.

To reach an even wider audience, Joyce has co-authored five books with her partner Roger Herman. These books are focused on what employers must do to attract, optimize, and hold onto their best employees. Joyce approaches Human Resources from an Internal Marketing perspective, taking external marketing concepts and strategies and applying them within the organization.

A respected professional speaker and trainer, Joyce has earned the designations Certified Management Consultant, the highest certification granted by The Institute of Management Consultants, and a Certified Speaking Professional, the highest certification granted by The National Speakers Association. She is also a Founding Member of the Association of Professional Futurists as well as being an active Professional Member of the National Speakers Association and The World Future Society. Joyce contributed a regular column to The Future Magazine, as well as Sky, Delta Airlines' award-winning in-flight magazine.

Joyce Gioia holds a bachelor's degree in languages and communications from The University of Denver and a masters in Business Administration (specializing in Marketing) from Fordham University. She also holds masters degrees in Theology and Counseling from The New Seminary. Joyce's career includes a wide variety of industries and fields, including hard goods, soft goods, wholesale, retail, and direct marketing. At the age of 28, she was the youngest magazine publisher in the country, publishing The Complete Buyers Guide to Stereo/Hi-Fi Equipment for Service Communications Ltd.

Often quoted in the national media, like Industry Week, The Christian Science Monitor, Entrepreneur Magazine, Business Week, The Wall Street Journal, and on National Public Radio, Joyce is recognized as one who not only knows what's coming, but can communicate that future very effectively. She has also appeared on numerous radio and television talk shows and was featured in an episode of New Attitudes on the Lifetime Cable Network.

"listed in Who's Who in America, Who's Who in the East, and the International Who's Who of Business Executives."

Speakers

ENVISION HUMANITY

STEVEN GARAN, Ph.D.

Director of Bioinformatics at CREA and serves on it's Advisory Board

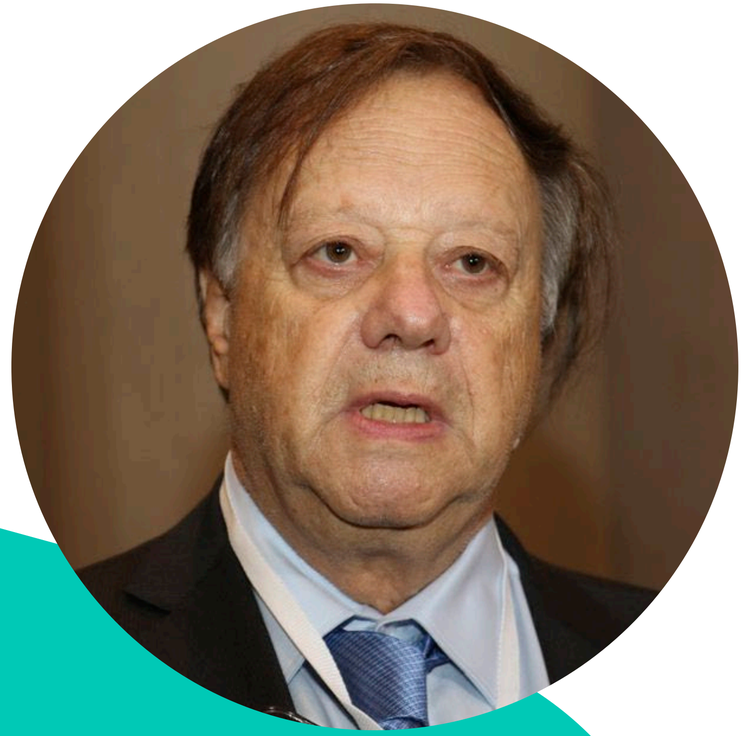
Steven A. Garan is the Director of Bioinformatics at CREA and serves on it's Advisory Board, he is also a researcher at the Lawrence Berkeley National Laboratory. While at the University of California, Berkeley, he played a major role in the invention and the development of the Automated Imaging Microscope 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 cytoplasmicly 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.

"Steven A. Garan is the Director of Bioinformatics at CREA and serves on it's Advisory Board, he is also a researcher at the Lawrence Berkeley National Laboratory."

Speakers

ENVISION HUMANITY



GIORGIO GAVIRAGHI

Founder and CEO of EDL.

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 copny, he has built a distinguisble career across the globe He has acted as CEO for international companies operating in Eurpe, 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 manangement for the recosntruction of thousands of buildings dmaged by the Friuli earthquake, an aerospace facility for 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 specislized in space architecture for advanced propjects 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 adavanced 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 Eurpe and latin America. Actually professor at UFMT in Brazil , teaching Exponential Creativity a disruptive post graduate course.

“Giorgio Gaviraghi received his Architectural degree from the Milan Polytechnic.”

Speakers

ENVISION HUMANITY

LAUREN FLETCHER

Founder and Visionary behind BioCarbon Engineering and the inventor of Tree Planting Drone technology.

β-Earth
Founder
Reno & Boulder

Lauren Fletcher is best known as the Founder and Visionary behind BioCarbon Engineering and the inventor of Tree Planting Drone technology, trying to combat global deforestation with a scalable solution that can make a real difference. His newest initiatives are focusing on re-aligning global supply chains in order to lower deforestation rates by reducing the amount of wood based materials in consumer products.

He holds a PhD in Physics (Oxford) and M.S. in Civil & Environmental Engineering (Stanford). He has 20+ years of experience as an Engineer and Scientist for NASA and Lockheed Martin across Space Shuttle, International Space Station, and Mars exploration programs. He is a serial entrepreneur, founding faculty of Singularity University, and on the Board of Trustees for the Desert Research Institute (Nevada).

He is driven by a genuine concern about the state of our world: degrading climate, loss of natural environments, significant biodiversity losses, and ever increasing human suffering. He believes that emerging and exponential technologies, when appropriately applied, can solve global scale problems in ways that we have never been able to do before.

"Lauren Fletcher is best known as the Founder and Visionary behind BioCarbon Engineering and the inventor of Tree Planting Drone technology"

Speakers

ENVISION HUMANITY

RACHEL KIDDELL-MONROE

Lawyer and health activist. Board Director of Médecins Sans Frontières

Lawyer and health activist. Board Director of Médecins Sans Frontières, a Professor of Practice at McGill University and Executive Director of SeeChange Initiative.

achel Kiddell-Monroe is a lawyer and a health activist. Over the past 25 years, Rachel has headed emergency humanitarian assistance programmes with MSF in Africa, Asia and Latin America. She continues to serve on the Board of Directors of Médecins Sans Frontières and is a Professor of Practice in international development at McGill University. Rachel is also the founding President of Universities Allied for Essential Medicines (UAEM), a global student driven organisation working on equitable access to medicines for all.

In 2018, Rachel founded SeeChange initiative which focuses on developing and supporting radical CommunityFirst approaches to address health crises. Her first project is empowering Inuit communities in Nunavut to respond effectively to the long term tuberculosis epidemic. Most recently, Rachel has developed an innovative online tool to support vulnerable and isolated communities globally to organise, prepare and respond to COVID-19.

Rachel enjoys connecting people and speaks widely throughout North America and Europe on humanitarian action, global health, and access to medicines.

> I alone cannot change the world, but I can cast a stone across the water to create many ripples.
> Mother Teresa

Speakers

ENVISION HUMANITY

NUNO MARTINS, Ph.D.

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

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 a 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 meeting 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.

"Healthy life extension should be the priority for everyone."

Speakers

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SIMON DANIEL, MA

Founder & CEO of Moixa Group, which includes Moixa Design (pioneering next generation devices), Moixa Energy Holdings (creators of eco-friendly battery category USBCELL and home energy technology)

Simon Daniel, MA is Founder & CEO of Moixa Group, which includes Moixa Design (pioneering next generation devices), Moixa Energy Holdings (creators of eco-friendly battery category USBCELL and home energy technology), and other research interests.

Moixa Technology Ltd has developed a range of home energy solutions that provide smart energy monitoring, easy to install microgeneration and storage, and provide efficient power via smart DC Hubs, DC micronets which can re-use household wiring to power home lighting, or provide smart DC sockets for appliances.

Their vision is to change the way we produce and consume electricity in homes. Specifically through focusing on the "Longtail" of energy consumption — using advanced monitoring and control to reduce high load appliance use, and through using smart DC micronets to reduce the inefficiencies of trillions of DC/low power lighting and electronic devices being powered from the grid via AC/DC adaptors.

The systems are designed to ensure rapid behavior change and for rapid installation into mass market to ensure that "No home is left behind" in adoption of low cost renewable energy solutions that can help power devices both off-grid or off-peak, and thereby help with the wider problem of grid peak demand balancing and energy security.

Simon authored Something wonderful, "South Park meets Harvard", My summer at the Woodstock for technologists, Life after the Singularity, Life returns after travelling through the Singularity.

Simon earned his MA in Natural Sciences at University of Cambridge and is a graduate of Singularity University.

> "Their vision is to change the way we produce and consume electricity in homes."

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