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Joseph Firmage is a cross-disciplinary scientist, macro-economic strategist, technology industry pioneer, philanthropist and a highly-respected author and lecturer on the future of humanity and our world. He has led the raising of over \$400 million in capital and returned a net of over \$4 billion to capital investors over his 35 year career. Virtually all of his earnings have been put forward into the companies and projects that are now consolidated into **Science Invents, and the Science Invents Alliance**, set to reveal remarkable new technologies beginning in 2022 and onward.

Joseph is considered a father of several technological revolutions in his 35-year career, including the first effective visual programming tools empowering non-programmers to build Apps starting in the late 1990's onward, the formation of the largest Internet Economy engineering and web design firm in the world during the rise of the Internet, USWeb/CKS, serving over 50% of the Fortune 100, including the joint collaborative effort with Microsoft, Intel, Cisco and others to establish 'Software as a Service' (SaaS), and propelling online video conferencing for later broad scale adoption.

For the past 20 years he has been leading physics and engineering teams designing and building new types of propulsion engines for spacecraft that can open the way for humanity to travel swiftly enough to make interplanetary and even interstellar travel feasible over the next 20 years. During those 20 years, the topic of 'UFOs' has been discussed, revealed and respected far more widely than ever, and will soon come to know that Joseph Firmage knew what he was talking about regarding UFOs.

Joseph brings a long history of providing technology, briefings and advice to U.S. Government departments and agencies. His commanding knowledge of history, politics, global conflicts and macroeconomics have been called upon on several occasions for briefings and collaborations with industry and government leaders.

His mission is to catalyze and help lead a New Renaissance for Humanity.

Advanced Physics

1998-Present: Science Invents, and the Science Invents Alliance, an umbrella for advanced R&D in breakthrough physics for propulsion, energy generation and materials sciences, and in parallel the evolution of the next generation of Internet Application Operating Systems and development tools.

Science Invents has combined the following science enterprises and programs into an operating unit called **Motion Physics**:

(1) **1998 - 2001: International Space Sciences Organization**, focusing on experimental studies at the leading edge of electrodynamics (classical and quantum), new understandings of GR and QM theories via ZPE/ZPF, vacuum field structure, superfluid and polarizable medium interpretations thereof; several dozen substantive experiments either created internally or evaluated from a “sifting process” of submissions of third party-developed devices alleged to produce anomalous energy and/or propulsion effects; several significant peer-reviewed papers published by the teams, conferences and discussion groups spanning the United States and Europe accomplished;

(2) **1999 - 2001: California Institute for Physics & Astrophysics** (CIPA, <http://calphysics.org>), focusing on theoretical surveys in the same fields as those above, with added theoretical studies in the interest of interpreting approaches to unification through analysis of geometrodynamically isomorphic characteristics;

(3) **1999 - 2000: Los Gatos Materials Sciences Laboratory** (LGMSL), a small but very focused and private advanced materials science operation, studying the nature and properties of metallic atoms in superdeformed states, as they may relate to breakthrough materials, clean energy and propulsion technologies.

(4) **2001 - Present: Motion Physics, consolidating the** above, conducting now ten generations of prototype propelaneless propulsion systems capable of “pushing against the medium of space” itself; remarkable results have been repeatably performed and sharpened; final test engine design, called Accelerometer One, is due to go into to metal cutting and assembly in Q1 2022 with full internal and external performance testing planned with commercial and governmental partners to begin in Q3 2026.

Internet Application Operating Systems & Tools

1989 - 1993: Founder, CEO and CTO, Serius Corporation, a pioneer of cross-platform “desktop programming” tools, via visual object-oriented programming system, enabling users to create their own world-class applications in minutes instead of months; major clients included: Intermetrics (now part of L3 Communications), U.S. Naval Warfare Command, U.S. Air Force, CNN, Ernst & Young; personally responsible for writing more than a quarter million lines of the founding Pascal source code base for the initial Macintosh OS version of the development and runtime systems, ported to MS Windows by 1992.

1993 - 1995: Vice President, Strategic Planning, Network Systems Group, Novell Inc.; Responsible for AppWare Developer Tools Division initially, and then strategic planning for merging the acquired AT&T Bell Labs' UNIX System V with NetWare 4, to create a 64-bit Intel-based, TCP-IP native Spec1170 compliant Universal Server Operating System incorporating NetWare Directory & Security Management Services.

1995 - 1998: Co-Founder and CEO, USWeb Corporation; Led the creation of the world's largest Internet consulting enterprise, with over 3,000 experts spanning 10 countries by, serving more than 50% of the Fortune 100 globally by the end of 1999. Clients included the World Economic Forum (constructing their Private Video Conferencing System for leaders of governments, NGOs and corporations globally), Dell, Cisco, Apple, Microsoft, CNN, Sony, Warner Records, American Express, Harley Davidson, Chevron, Barnes and Noble, RiteAid, Levi Strauss and scores of others. Led the acquisition of more than 35 companies around the world, culminating in 1998 with the launch of an Advanced VoIP Practice in Manhattan serving major telcos in their migration to IP-based voice and video services, and USWeb Electronic Services in a joint venture with Microsoft and Intel, later assisting in laying the groundwork for Microsoft's .Net Application Service Provider/Platform (ASP) strategy.

1998 - 2001: Co-Founder and Managing Partner, Intend Change Group, an experienced "venture architecture" team; raised \$250 million from major Venture Capital Partnerships for half a dozen select projects, including:

(1) OneCosmos Network, a pioneering (as-yet-unreleased) Internet education and navigation front-end & back-end "3D Rich Media" platform in partnership with the Carl Sagan Foundation; major partnerships included American Association for the Advancement of Science, United Nations University for Peace, the Planetary Society and UC Berkeley's SETI@Home Project; Funded and Co-Executive Produced the Millennium Edition of Carl Sagan's historic, Emmy Award-winning PBS television series, COSMOS, on DVD, in 7 languages; OneCosmos.net later evolved to become Manyone, launching in 2022, with expert a content stewardship network spanning more than 1300 scientists in more than 60 nations;

(2) Electron Economy, developer of the initial version of the "InternetTONE", or Internet Transaction Operations Network; InternetTONE offered a universal XML transaction protocol, linking raw suppliers, intermediate manufacturers, downstream distribution networks, retail store fronts and physical delivery partners such as the US Postal Service, UPS, Federal Express and others; recruited the President of Federal Express Canada to lead the enterprise, which among other engagements helped to launch the Sony Playstation 2 online; acquired by SoftBank portfolio company Viewlocity Inc. in 2001 for an undisclosed sum;

(3) Invesmart, a pioneer in the shift from offline to online 401k and other retirement-related financial services; acquired dozens of regional retirement planning services companies accumulating consolidated administration of more than \$2 billion in assets under management; acquired by StanCorp in 2006 for \$85 million;

(4) Infrastructure Defense, D.C.-based a pioneer of technical and operational security innovations designed to detect and prevent intended attacks or unintended events from disabling critical IT infrastructure across the Internet; successor acquired by VeriSign for \$40 million in 2006.

2001 - Current: Founder and Chairman, ManyOne, carrying on the vision of OneCosmos and Electron Economy combined; after completion in 2020 of the \$30 million additional underlying additions to the platform for M1 since 2002, and building a global network of more than 1300 experts and scientists across the planet, the entire network is set to light up during the 2nd quarter of 2022;

The most vital and successful aspects of the above enterprises, institutions and activities have yielded the consolidated umbrella, **Science Invents**, and the **Science Invents Alliance**.

Interviews, Essays, Films and Books

1989 - Present: Appearances and interviews include PBS, BBC Hardtalk, CNN, NBC Dateline, Forbes ASAP, USA Today, CNET, Salon, Business 2.0, San Jose Mercury News, and a host of others.

Publications and Films

1998 - 1999: *The Truth* (400 pages), an online book as a collection of essays by myself and approximately 15 other experts regarding the research and analysis of the intersection of 20th — 21st century civilization, and the global rise in appearance of “unidentified flying objects” (UFOs) over the past 70 years; historical, present and future implications science, spirituality and society were addressed; taken down for editing and re-release in early 2022

2000: Co-Executive Producer with lead Ann Druyan, the Millennium DVD Edition of COSMOS, by Carl Sagan and Ann Druyan; the epic 13-hour Emmy Award-winning PBS television series, watched by more than 600 million people in the past 30 years.

2012: Revolutions in Physics (~250 pages), XLibris Press, Book I of a trilogy titled 2050; *Revolutions in Physics* is a sweeping history of the development of concepts of space, time, mass and force through the ages; it then culminates in a robust and courageous exploration of the emergent view that “space-time” is actually a highly potent energetic medium, capable of supporting entirely new classes of energy, propulsion, communications and health sciences technologies.

2012: Evolving Economics (200 pages), XLibris Press, Book II of a trilogy titled 2050; *Evolving Economics* is an equally broad historical study of the emergence of neoliberal capitalism in the 20th century; it explores the crises of capitalism and culminates with a 100-year vision of the economy of a more sustainable, egalitarian, and libertarian civilization, one compatible with transformative possibilities glimpsed in *Revolutions in Physics*.

Early 2022: The Secret: Evidence We Are Not Alone; A sweeping history of the UFO phenomenon and interactions with and resulting activity of the U.S. Government in response, including the rigorous forensic assessment of hundreds go pages of formerly Top Secret documents; this volume is a ‘must read’ for those who want a concise history of the UFO controversy; its implications are profound.

Late 2022: *2050: A Day In The Life Of Your Future* (200 pages), XLibris Press, Book III of the trilogy, is intended to be a thrilling first person tour through the lives of a cross section of society from 1930 to 2050. Late 2022 publication date set.

Philanthropic Activities

1999: Founding Financial Sponsor, \$1 million, the Carl Sagan Foundation (<http://CarlSagan.com>), whose missions is to awaken people to the soaring spiritual high achieved in understanding the central revelation found through the practice of excellent science: our oneness with the Cosmos; first project: remaking the top floor of a new Children's Hospital in the Bronx, New York, into a place fit for healing very, very sick children: all the walls ceilings and floors covered with images of the world and universe around them; no white sterility, just Nature's beauty.

1999: Founding Financial Sponsor, \$1 million the Integral Institute, founded by world-renowned philosopher Ken Wilber; Wilber's unmatched intellect and heart infuse the most prodigious works of ontology and epistemology published in the modern era; the Institute plays a continuing role in bringing together the world's brightest minds to explore the biggest ideas we know.

1999: Sponsor, \$1.25 million, Arlington Institute, founded by world-renowned futurist, John L. Petersen; Petersen brings decades of experience across government, military, NGO, and corporate communities with a focus on the mission critical discipline of scenario planning; Arlington focuses on convening groups and assisting organizations in scenario planning particularly in the face of the "singularity" in human affairs apparent everywhere at the turn of the millennium.

2000; Financial Sponsor and Member of the Board of Directors, Infrastructure Defense, Led by James Adams, former Chief Executive Officer of United Press International; to aid in the creation of one of the first organizations to establish early warning detection alerts and remediation systems to protect Internet-based critical communications infrastructure and networked applications operating on it.

2000: Sponsor, \$250,000, The Dalai Lama Foundation and Dharmasala-based Internet infrastructure, connecting the Tibetan government-in-exile and His Holiness the Dalai Lama for the first time to satellite Internet connectivity and developing one of their first Web sites, to enable high-bandwidth communications.

2000: Financial Sponsor, \$1 million the State of the World Forum Millennium Conference in New York City, bringing together nearly 1,000 NGO, Corporate and Government leaders from around the world to discuss and strategize on ways and means to improve the state of our world.

Awards

2009: Integrity in Physics Award, Integrity Research Institute

1998: Entrepreneur of the Year Award, Ernst & Young

1987: C.N. Yang Academic Physics Scholar, University of Utah College of Physics

1985: Le Meilleur Eleve de la 2 Me Annee, Olympus Jr. High School

1985: Outstanding Science Student, Stucki Award, Olympus Jr. High School

1984: Outstanding Science Student (2nd place), Stucki Award, Olympus Jr. High School 1982: Hope of America Award, Holladay Elementary

Other Interests

Leadership, learning, engineering, filmmaking, SCUBA diving, boating, hiking, Family

Early Years

1986 — 1988: Olympus High School, AP in Chemistry and Computer Science, (and Yearbook Photographer — fun!).

1987 — 1988: Awarded C.N. Yang Academic Physics Scholarship, University of Utah, specializing in Astronomy, Physics, Mathematics, Bioethics, Social Science and Philosophy.
Professional Background

1982 — Current: Astronomer, Member, Salt Lake Astronomical Society

1984 — 1985: Assistant Manager, Chaparral Photo, lab processing for small and large format film and print development.

1985 — 1987: Assistant Manager, Computer Accounting and Maintenance Services (CAAMS), a Utah-based four-site computer large account and retail sales, finance and maintenance company; large customers included Hill Air Force Base north of Salt Lake City..

