

Joel D. Silverstein

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PERSONAL PROFILE

Age 58 in excellent health, with valid U.S Passport and ability to travel on short notice. For the past twenty years has owned and operated multiple companies as well as consulted with others. A multifaceted executive, capable of engagement for strategic projects within various industries.

AREAS OF EXPERTISE

- Education Design • Interactive Learning Development • Scientific Research • Sales & Marketing
 - Project Management • Strategic Planning • Expedition Planning • Research
- Client Relations • Concept Development • Dive Operations • E-Learning • Social Media
 - Training • Film Production • Photography • Equipment Design • Decompression
 - Accident Analysis • Subject Matter Expert • Forensic Analysis & Opinion

CAREER HISTORY

Fall 2016- Science Teacher – Lake Havasu Unified School District

Specialize in Long Term Assignments at the High School Level – Science, English, Math. During previous period have primarily taught, Biology, Physical Science, Chemistry, Honors and AP Chemistry. Familiar with educational design, lesson planning, and the Arizona Education Standards. Current assignment – Physical Science

2012-present Vice President - Sea Wonders LLC

Research and Development company concentrating on dive safety, analysis, and development of educational materials. Responsible for creation of concepts and production of educational solutions to industry specific issues. Technology includes learning management systems utilizing adaptive eLearning environments.

2003-present Vice President - Scuba Training and Technology Inc. with Tech Diving Limited / Movie Divers

Responsibilities include corporate operations, product development, evaluation, authoring of sales and marketing materials, training programs and texts. Other responsibilities include management and selection of equipment wholesale, retail, and on-line sales channels. Responsible for operations of underwater projects including motion pictures, television, documentaries, research and private expeditions.

- 2010** **Dive Operations Supervisor** - Shark Night 3D motion picture. Incentive Filmed Entertainment. Shreveport, LA. (David Ellis, Director)
Supervised diving operations. Responsibilities included budgeting operations, production management, marine coordination, safety protocols, and equipment management. Hiring and retention of crews. Coordination with union, state, and local authorities. Supervised over 600 production dives.
- 2009** **Dive Operations Coordinator** - Piranha 3D Motion Picture. Weinstein Co. (Alexander Aja, Director) Supervised diving operations including a crew of twenty-four divers. Responsibilities included budgeting operations, production management, marine coordination, safety protocols, and equipment management. Hiring and retention of crews. Coordination with union, state, and local authorities. Supervised over 1,800 production dives, trained talent and stunt crews.
- 2003-2005** **Regional Manager-** International Training Inc. Topsham, ME
Scuba Diving International & Tech Diving International
Responsibilities include Sales and Training of fifty Southwest and Western regional dive centers and over 600 instructors.
- 2000–2003** **Vice President Sales & Marketing, Abyss Dive Systems, Boulder, CO**
Responsibilities include sales and marketing of high-technology diving equipment to over 550 retail outlets in the USA. Manage and motivate national sales team of eight, and maintain a direct sales base of over 175 accounts. Other responsibilities include product development, evaluation, authoring of sales and marketing materials. Responsible for capital acquisitions and growing company from a \$300k annual revenue to revenue of \$2.2million with 1,050 products serving customers worldwide. Implemented a direct to the consumer e-commerce distribution system.
- 1996-Present** **Key Note Speaker – International Society of Aquatic Medicine – Wilmington, NC**
Responsible for CME (Continuing Medical Education) of the society’s physicians in diving medicine, aquatic injury, decompression illness, physics and physiology as it applies to diving medicine. More than 2000 hours of didactic instruction.
- 1997- 2000** **Vice President Operations, Scuba Training & Technology Co.** Bridgeport, CT. Responsibilities include designing, presenting, and marketing technical diving education programs.
- 1994-1997** **Executive Director, Extended Range Diving Organization, Inc. 501(c3) a/d/b/a City Island Hyperbaric Chamber.** City, Island, NY.
Created and operated a 24/7 diver emergency multi-place hyperbaric chamber. Coordinate staff of 24 technicians, nurses, EMTs, DMTs, and physicians.
- 1991-1997** **Publisher, Editor, SUB AQUA magazine.** 25,000 circulation publication focusing on international diving technology, undersea technology, science and shipwreck exploration

EDUCATION

- 2013-2016 **Communication, BA** Arizona State University, Summa Cum Laude, Deans List, New College of Interdisciplinary Arts and Sciences – Emphasis on the application of communication theories and concepts to social media, critical analysis reports, position papers, and crisis/conflict resolutions. Other areas include crafting and shaping messages for effective communication for interpersonal, cultural, public, and business situations.
- 1976-1978 **Fine Arts, A.S.** City University of New York, Kingsborough
Concentration in Photography with emphasis on advertising, commercial, industrial, and portrait image making.

EXPERT WITNESS / SUBJECT MATTER EXPERT

Investigate and produce expert opinion reports on scuba and compressed gas diving accidents and fatalities. Areas of expertise involve evaluating training standards violations, accident analysis, equipment analysis, including open and closed circuit scuba, and surface supplied systems. Equipment and process evaluation of compressed gas cylinder handling and gas mixing systems and conducts assessment and validation of decompression computers and decompression software. Work is nearly evenly divided between files for plaintiff and defense litigation.

EQUIPMENT DESIGN AND FABRICATION

Design life support equipment for manufacturing and distribution with specific focus on technical diving applications. Design buoyancy compensation, lift system, breathing regulators, dive computers, valve and gas management systems, mixed gas breathing systems. Also designs and fabricates specialized diving equipment for use as props in movie making.

PUBLICATIONS – BOOKS, CHAPTERS, PAPERS, ARTICLES, AWARDS

Authored books, chapters, publications, education programs, and hundreds of articles and photographs in regional and national publications: Sub Aqua, Aqua Corps, Sources, Florida Scuba News, Dive Training Magazine, NACD, Alert Diver, Diver, X-Ray, and Northwest Dive News.

- 2016 Emmy Award – Underwater Cinematography – Lake Mead B-29 -- FOX
- *Advanced Nitrox and Decompression Diving Text*, 2007, Silverstein, Tech Diving Limited
- *DAN On-Board*, E-Learning Educational System / Boating Safety, 2015, Silverstein & Weydig
- *NAUI Nitrox: A Guide to Diving with Oxygen Enriched Air*. 1998, 2000 Silverstein & Hamilton
- *NAUTILUS Decompression Planning Software*, 2005, Silverstein & Nafe
- *NOAA Diving Manual 4th Edition* 1999, Hamilton & Silverstein
- *Oxygen and Helium Breathing Gas Analysis: TekCheck Product Manual*, 2003, 2004
- *Performing Gas Analysis for Oxygen Nitrogen Breathing Mixtures*, 2003, Silverstein & Hamilton

- *Scuba Diving with Mixed Gases*, 2001, Silverstein & Hamilton
- U.S Navy Survey of Air and Oxygen Breathing Mixtures, 2000, Hamilton & Silverstein
- *Using Technical Diving Techniques for Short Dives in the 80-100msw Range*, Silverstein & Hamilton, NATO
- *YMCA Nitrox Divers Guide*, 2005, Silverstein & Hamilton

A complete list of publications is available at www.joelsilverstein.com

AFFILIATIONS – ASSOCIATIONS – SOCIETIES

- ASU Digital Media Organization (2015-2016)
- Explorers Club – Fellow National '95
- Golden Key International Honor Society (2014)
- IATSE Local 336 (485) Union Member (2009)
- IMDB International Movie Data Base
- International Society of Aquatic Medicine Keynote Speaker (since 1994)
- Platinum Pro 5000 Honor – Scuba Schools International (1994)
- Professional Association of Diving Instructors, Master Scuba Diver Trainer (1990)
- Scuba Diving International –(since 1995)
- Technical Diving International (since 1994)

DIVING HISTORY

Since 1988, Joel has completed over 6,500 dives. More than 3,000 have been on shipwrecks all over the world. He has extensive experience with un-tethered mixed-gas diving in the open ocean. Most notable of expedition and research locations are the USS Monitor, USS Wilkes-Barre, USS San Diego, SS Oregon, RMS Rhone, the Andrea Doria, and the SS Republic. Current permit holder for guided dives on the B-29 Supers-fortress in Lake Mead. Complete details at www.joelsilverstein.com

Joel is one of the leading educators and technical diving instructor trainers in the world specializing in education and training divers and instructors in mixed-gas diving procedures, techniques and technology.

CERTIFICATIONS

SCUBA DIVING INTERNATIONAL (SDI) & TECHNICAL DIVING INTERNATIONAL (TDI) # 0125

TECHNICAL DIVING INSTRUCTOR TRAINER

- Advanced Trimix
- Advanced Wreck Diver
- Extended Range Diver
- Decompression Procedures
- Advanced Nitrox Diver
- Nitrox Diver
- Advanced Mixed Gas Blender
- Nitrox Gas Blender

RECREATIONAL DIVING INSTRUCTOR TRAINER

- Open Water Scuba Diver
- Dive Master
- Assistant Instructor
- Rescue Diver
- Surface Supplied Diver
- Full Face Mask
- Deep Diver
- Advanced Wreck Diver

- Certified and active user of rebreathers including, KISS, AP Diving, ISC, MK-15, Draeger, REVO and other mixed gas and oxygen rebreather units.
- Project specialist in running dive operations using open circuit, closed circuit and surface supplied systems including decompression and recompression chambers.

PROFESSIONAL ASSOCIATION OF DIVING INSTRUCTORS (PADI) # 41733

MASTER SCUBA DIVER TRAINER

- Open Water Scuba Instructor
- Dive Master
- Assistant Instructor
- Rescue Diver
- Wreck Diver
- Nitrox Diver
- Advanced Open Water Diver
- Computer Assisted Diver

UNDERWATER RESEARCH & EXPEDITIONS

Conducts research and exploration of shipwrecks accessible by free-swimming divers in the 30-100-meter depth range. Documentation with photographic and video graphic methods.

2017-2018 Permit Holder – **USS Monitor** Exploration and examination of the historical wreck site utilizing VR360 photogrammetry and collection of biological organisms for evaluation of Lion Fish and toredo worm infestation. Project scheduled for completion summer 2018

2015-2017 Permit Holder - **B-29 Bomber** - Granted special Commercial Use Authorization permit by National Parks Service for access to B-29 bomber in Lake Mead, Nevada – During permit period conducted over 150 dives examing and documenting the site while also supervising another 200 dives on a civilian level.

2014-2018 – Investigator – Marrone Bioinnovations Inc. – principal investigator of sampling Colorado River for quagga mussel infestation. (Commercial contract)

2011 Expedition Leader **Andrea Doria Project**. Exploration and examination of the current state of deterioration of the wreck site.

2010 Expedition Leader **Andrea Doria Project**. Exploration and survey of the present state of deterioration of the wreck site. Discovered and recovered Bridge Bell.

2010 Expedition Leader – **Key West Wrecks** Exploration and documentation of deep shipwrecks including the USS Wilkes-Barre, USS Curb, and USAF Vandenberg.

2008-2009 Permit Holder - **B-29 Bomber** - Granted special permit by National Parks Service for access to B-29 bomber in Lake Mead

2008 Expedition Leader **Return to the USS Monitor Project**. Exploration and examination of the historical wreck site. Executive Producer “Return to the Monitor” DVD series

2006 Expedition Leader **Return to the USS Monitor Project**. Exploration and examination of the historical wreck site. Preparation for excavation of bow section in 2007.

2006 Expedition Leader **Andrea Doria Project**. Exploration and survey of the current state of deterioration of the wreck site.

2006 Expedition Leader **California Shipwrecks Project** Exploration and survey of deep water shipwrecks between Catalina Island and San Diego

2005 Expedition Leader **Andrea Doria Project**. Exploration and survey of the present state of deterioration of the wreck site in anticipation of the 50th anniversary in 2006.

2004 Expedition Leader **USS Monitor Project**. Exploration and examination of the historical wreck site. Discovered how three hurricanes have affected the site over two years.

2004 Expedition Leader **B-36 Discovery**. Located and identified a B-36 Bomber lost in 1956 off Mission Bay, San Diego, California. The B-36 was the largest military plane ever built.

2000 Expedition Leader – **Andrea Doria** *Associazione Soprav Vissuti Andrea Doria Expedition* Photograph and document the wreck site.

1998-2001 Operations Manager - **Lexington Project**. Exploration and identification of the steamship Lexington, which sank in Long Island Sound 1851. Documentary Film (not released)

1997 Operations Manager and Lead Diver on **Farb Monitor Expedition** for NOAA. Participated in a survey of this historical and protected shipwreck. U/W photography and digital video, measurements and mapping and artifact collection

1993 Expedition Leader on **SS Republic** (275 fsw) first untethered mixed gas diving expedition on the famed wreck searching for lost payroll from 1909.