**Appendix: Names/Backgrounds of Technical Witnesses**

**From 9/11: Explosive Evidence - *Experts Speak Out* Documentary Film**

**Roland Angle,** P.E., Civil Engineer. Roland Angle has been a civil engineer for 44 years and is a graduate of the University of California. His practice has included design and testing of structures that were designed to withstand blasts. One example includes the launch facilities for the Minuteman Missile System that had to withstand a nuclear blast. Trained in the use of demolitions as a Green Beret for six years in the 1960s, he attacked structures and analyzed their weak points to learn how to place explosives at points that would cause them to fail. He tested his analyses by demolishing these structures and analyzing the results.

**Stephen Barasch,** High-Rise Architect. Stephen Barasch is founder and president of Barasch Architects & Associates, Inc., an architecture, planning and engineering firm, which has been in business for 33 years, with offices in San Luis Obispo and Pasadena, California. His firm has worked on over 500 office facilities of all types. He holds a hold a Bachelor of Architecture degree from the University of Arizona and a Master's of Architecture and Urban Design from Rice University in Houston, Texas. He spent three years in London as the first PhD student at the Architectural Association, studying in conjunction with the Tavistock Institute of Human Relations.

**Dan Barnum,** FAIA, Architect. Mr. Barnum is a graduate architect from Rice University and holds a Bachelor of Architecture degree. He has been practicing architecture for the past 40 years and has designed a variety of buildings from small houses to high rise office buildings. Highrise building projects that he worked on include One Shell and Two Shell in Houston, Texas, as well as the structure that used to be the Houston Lighting and Power building, now the Houston Public Works office building. He was also a project manager for a 22-story office building in Akron, Ohio. Barnum is a fellow of the American Institute of Architects. Fellowship is the highest honor bestowed on its members by the Institute.

**Mark Basile,** B.S.C.E., Chemical Engineer. Mark Basile is a chemical engineer. He holds a bachelor of science in chemical engineering from Worcester Polytechnic Institute. He has worked for about 25 years in industry and the majority of what he does is analytical work in the field of materials science.

**Dr. Bob Bowman,** Lt. Col. USAF, Ret., PhD. Dr. Bob Bowman is a retired Lieutenant Colonel, United States Air Force. He flew 101 combat missions in Vietnam and directed all the Department of Defense Star Wars programs under Presidents Ford and Carter. Bowman's PhD is in aeronautics and nuclear engineering from California Tech, and he did his post-doctoral work at the von Karman Institute in Brussels, Belgium, in finite element analysis. He taught at five colleges and universities, serving as department head and assistant dean. Dr. Bowman is now deceased.

**Bill Brinner,** Architect. Bill Brinner has been a licensed architect in the State of New York for 25 years. For most of that time, he was designing data centers throughout the country. He personally witnessed the South tower being hit by an airplane.

**Ron Brookman,** S.E., Structural Engineer. Mr. Brookman is a licensed structural engineer in California. He received his Master's Degree in structural engineering from University of California at Davis in 1986 and has practiced structural engineering ever since. His experience with structures includes commercial office buildings, manufacturing facilities, and industrial buildings.

**David Chandler**, Physics Teacher. David Chandler holds a bachelor's degree in Physics from Harvey Mudd College and a master's degree in education from Claremont Graduate University. He also holds another Master's Degree in mathematics from California Polytechnic University. He's been teaching physics and math at high school and college level, mostly in California, but also overseas in quite a few different kinds of schools. He's been a teacher for over 30 years.

**Jason Cheshire** B.S.C.E., Chemical Engineer; Metallurgist. Jason Cheshire is a licensed professional engineer in the province of Ontario, Canada. He has been working in the field of hydrometallurgy for the past ten years for a major company in Canada.

**Frank Cullinan,** Civil Engineer. Frank Cullinan is a practicing civil engineer in the State of California. He holds a bachelor's degree in science from Chico State in 1988 and has been a licensed civil engineer since 1993. Mr. Cullinan has experience in bridge design and building design and specializes in bridge construction, retaining wall construction, small building construction, and bridge demolition.

**Michael Donly,** S.E., Structural/Civil Engineer. Mr. Donly is a structural engineer with 14 years of experience. He was involved mostly with the design of steel framed, fire-proof buildings.

**Steven Dusterwald,** S.E., Structural Engineer. Steven Dusterwald is a licensed professional structural engineer with 37 years of experience in the structural field. He has 25 years of experience as owner and principal of his own structural engineering firm in Las Vegas. He has focused on the design of nuclear power plants, large commercial buildings, and industrial buildings.

**Jeff Farrer,** Chemical Engineer. Jeff Farrer holds a PhD in material science and engineering from the University of Minnesota. He also holds a BA in physics from Brigham Young University. He has worked with solid-state reactions and has experience with characterizing materials, semiconductor materials and thin films. He currently works with nanoparticles as well as solid-state reactions.

**Rick Fowlkes,** S.E., Structural Engineer. Rick Fowlkes is a structural engineer with over 40 years of experience. He has run his own engineering business in Arizona since 1983. Prior to that, he was a Vice President with prominent engineering firms in the Phoenix area. Fowlkes' experience includes the design of large structures such as power plants, shopping centers, schools, commercial buildings and other structures.

**Richard Gage, AIA**, Architect. Mr. Gage is a San Francisco Bay Area architect of 25 years, a member of the American Institute of Architects, and the founder and CEO of Architects & Engineers for 9/11 Truth (AE911Truth.org), a 501(c)3 educational charity representing more than 2,000 degreed/licensed architects and engineers who have signed a petition calling for a new, independent investigation, with full subpoena power, into the destruction of the Twin

Towers and the 47-story World Trade Center Building 7 on 9/11. He managed the construction documents for a $400M mixed-use urban project with 1.2 million square feet of retail, a parking structure, and 320,000 square feet of mid-rise office space—altogether with about 1,200 tons of steel framing.

**Jody Gibbs,** Architect. Mr. Gibbs is a registered professional architect. He became licensed for heavy construction and general building as well as architecture more than 35 years ago. He attained his education from Yale University, the Harvard Graduate School of Design, and the Yale Graduate School of Art and Architecture. He was honored with a mid-career fellowship at the Harvard Graduate School of Design. He taught at MIT as an adjunct faculty member for a number of years in the Graduate School of Architecture.

**Scott Grainger,** F.P.E., Fire Protection/Forensic/Civil Engineer. Scott Grainger is a licensed fire protection engineer. He is licensed in 13 states. He has been in private practice for 25 years and has been a practicing engineer for 39 years. Half of his practice is in forensic engineering.

**Niels Harrit,** Ph.D, Associate Professor, University of Copenhagen. Niels Harrit holds a master's degree and a PhD in chemistry, and he's currently an associate professor at the University of Copenhagen, where he has been so for almost 40 years. He has published close to 60 peer-reviewed papers in top journals, and currently he's involved with research x-ray time-resolved spectroscopy on timescales of one millionth of one millionth of a second. About 3 1/2 years ago he accidentally saw building seven going down on a DVD, which was a recording from a Steven Jones lecture that he gave at Brigham Young University. That caught Harrit's attention immediately. He had never heard about Building Seven before and further, he couldn't understand what was going on because apparently it collapsed with no reason at all. As a scientist, he is trained to try to understand what is going on around him, and when he couldn't understand the event, and has since spent countless hours looking into it.

**Richard Humenn,** P.E., WTC Chief Electrical Engineer, Ret. Mr. Humenn is a retired electrical engineer. He holds a Bachelor of Electrical Engineering degree from the Brooklyn Polytechnic Institute (1954). He worked for Joseph R. Loring and Associates for 41 years and was principal chief electrical engineer for the World Trade Center Complex. After construction of the Twin Towers was completed, the company took over conceptual maintenance and improvements for the various elevator systems, so he gained in-depth knowledge of these systems including the interior structure that surrounded the elevator shafts.

**Kim Ireland**, Chemical Engineer. Mr. Ireland earned a degree in chemical engineering from Clarkson University in 1963. He then served two years as a reserve officer in the U.S. Army Corps of Engineers where, he trained with explosives such as C-4. He was involved in the industrial chemical industry for 20 years with major companies such as Union Carbide, Pfizer, Procter & Gamble, and Sterling Drug. He was the owner of Northland Chemical, which provided custom services for companies such as Sterling Drug in their manufacturing of Bayer aspirin. They also produced copper nitrate, which was used as a hydrogenation catalyst for companies like Procter & Gamble.

**Steven Jones,** Ph.D, Physics Professor Emeritus, Brigham Young University. Steven Jones is a physicist. He received his PhD in physics from Vanderbilt University in 1978. He has published over 50 peer-reviewed papers in his career. Included in that number is a paper published in April 2009 titled, 'Active Thermitic Material Discovered in Dust from the 9/11 World Trade Center Catastrophe'. Jones notes that NIST concedes that they did not look for explosives. According to Jones, what they said was, "We found no evidence for explosives." Jones asked them, "Well, did you look?" And NIST replied, "No, we did not look for explosives or residues of explosives."

**Eric Lawyer,** Firefighter, CEO Fire Fighters for 9/11 Truth. Eric Lawyer has served in the military, and for years had believed and aggressively defended the official story. His lieutenant of many years convinced him to look into the collapse WTC 7. Using the investigation manual (called the NFPA 921), the guide for fire and explosions investigations, a national standard, he was shocked by what he discovered. He found out that NIST didn't test for explosives despite reports of explosions by numerous firefighters and civilians.

**Jerry Lobdill,** B.S.C.E., Physicist and Chemical Engineer. Jerry Lobdill is a retired physicist and chemical engineer. He has a BS in Chemical Engineering from Texas Tech and has extensive course work in mathematics and physics from the University of Texas in Austin. His career has been spent primarily in research. He has broad experience in analysis and applied research. He has 30 years professional history spanning physics, chemical engineering, statistical analysis and modeling, and operations research.

**Alfred Lopez,** S.E., Structural Engineer. Alfred Lopez is a registered professional structural engineer in the state of Michigan and has been in private practice for forty years with Lopez engineering. He's worked on several high-rise projects with office buildings above parking decks and high-rise apartment buildings in the Detroit area. He's been part of numerous investigations of failures of buildings because of fire and wind damage. His work also has included determining what could be saved and what has to be replaced in the damaged buildings.

**Steve Luce,** US Army Combat Engineer. Steve Luce is a former 12 Bravo combat engineer in the U.S. Army. He trained extensively for 4 years in the use of plastic, liquid, and powder explosives. He has experience using these materials to take out mine fields, to destroy bridges and was trained in how to place the explosives on the bridge in order to selectively destroy or disable them.

**Lynn Margulis**, Ph. D., Biologist, National Medal of Science. Dr. Margulis attended the University of Chicago, earned a master's degree in biological sciences at the University of Wisconsin at Madison in 1960, and received her Ph. D in botany from the University of California at Berkeley. In 1966, as a young faculty member at Boston University, she wrote a theoretical paper entitled "The Origin of Mitosing Eukayotic Cells," which was published by *The Journal of Theoretical Biology*, and is considered today a landmark in endosymbiotic theory. Dr. Margulis is deceased.

**Robert McCoy,** High-Rise Architect. Robert McCoy holds a bachelor's degree in architecture from the University of California at Berkeley (1963). He has been a licensed California architect since 1964. From about 1965 to 1985, most of his experience was in multi-story high-rise, steel-frame buildings. The first major high-rise building that he was involved with was a headquarters for Pacific Gas and Electric Company in San Francisco. It's a 34-story building. He also participated in the design of 575 Market Street, a 44-story building for Standard Oil, which is their headquarters building, and 100 Pine Street, which is a 34-story building.

**Kathy McGrade,** B.S., Metallurgical Engineer. Kathy McGrade holds a bachelor's in metallurgical engineering from New Mexico Institute of Mining and Technology (1979). After graduating, she spent the next 30 years with three startup companies. The first one was named Starstruck which built a rocket system for delivering satellites to low Earth orbit in competition with the space shuttle. The second was named Metcal in which she was involved with melting together two different rather obscure material properties to make a heating device that would self-regulate the temperature without having a thermocouple feedback loop. The third company was named Crystal Loom where she was involved with using chemical vapor deposition. After those three startups McGrade ran her own company, Failsafe Testing, which she still runs today. She took a non-destructive testing technique called Acoustic Emission and applied it to fire service aerials to evaluate the structural integrity of their aerial ladders. A friend of hers asked if fire can melt steel. And she had to think to herself, "Well sure that's what a blast furnace is". In a blast furnace you pump a lot of oxygen in, with, and you heat the steel up until it melts. But it's a very controlled environment in which that happens. She thought it would be a fun academic exercise to look into 9/11 and the more and more she looked into it the more horrified she became by what she saw.

**Ed Munyak,** P.E., Fire Protection / Mechanical Engineer. Mr. Munyak is licensed fire protection engineer for the last 25 years and worked for a number of organizations. These positions were for city, federal, and large insurance companies. He has worked as a consultant in the area of fire safety with the goal of keeping the public and first responders safe. He became fascinated with the government's version of the events on 9/11. He says it is totally contrary to everything that he has ever experienced either working in the field of fire safety or mechanical engineering. He says the government story defies many fundamentals of mechanics, materials, physics, and engineering.

**Kamal Obeid,** S.E., Structural Engineer. Kamal Obeid holds a Master's Degree in Civil and Structural Engineering from the University of California at Berkeley. He has been a practicing engineer for the last 30 years, a licensed structural engineer for the last 25 years. He has designed and retrofitted numerous structural steel-frame buildings.

**Adam Parrott,** B.S.C.E., Chemical Engineer. Adam Parrott holds a bachelor's degree in chemical engineering from Queens University. He's been working for an environmental consulting firm for a number of years.

**Casey Pfeiffer**, S.E., Structural Engineer. Mr. Pfeiffer holds a bachelor's degree in civil engineering from the University of Notre Dame and is a registered professional structural engineer in San Diego, California. He has been practicing engineering for 15 years and currently is the principal of Pacific Coast Structural Engineering in San Diego, California, which specializes in the design of hospitals, industrial buildings, and commercial offices in structural steel and concrete.

**Robert Podolski,** Physicist, Engineer. Mr. Podolski holds a master's degree in theoretical physics from Xavier University in Cincinnati. He has worked for 10 years as a professional physicist, engineer, and systems analyst for government and for industry. He has worked for Avco, GE, Bendix, Air Force Avionics Lab, and the Coast Guard Electronics Division.

**William Rice,** B.S., Civil Engineer. Mr. Rice worked for one of the nation's largest design/build/construction firms on commercial, industrial and institutional projects in Boston, New York, Philadelphia, Baltimore areas. He course majored in structures and was a member of the Tau Beta Pi engineering honor society. He also worked as a professor for 20 years, teaching engineering materials, structures lab and other building related courses at Vermont technical college to architectural and engineering students.

**Kevin Ryan**, CQE. Mr. Ryan is a chemistry laboratory manager. He holds a chemistry degree from Indiana University and he's also a Certified Quality Engineer through the American Society for Quality. Ryan has worked in analytical chemistry laboratories for 21 years. During that time he worked as site manager for Underwriters Laboratories in South Bend, Indiana.

**Jonathan Smolens,** S.E., Structural Engineer. Jonathan Smolens has worked as a professional structural engineer in the Boulder-Denver area for the past twelve years, and one of his specialties is forensic engineering including evaluation of structures post-disaster.

**Tom Sullivan,** Explosives Technician. Tom Sullivan worked for Controlled Demolition, Incorporated (CDI), the top-rated explosives demolition firm in the world. As an explosives loader, his job was to place explosives in the buildings to prepare them for demolition. He was licensed while in New York by the New York fire department to handle explosives. He worked on major projects, such as Seattle Kingdome, the Three Rivers Stadium, Philadelphia Naval Hospital, and the Keyspan Gas Holders in New York, among others.

**Tony Szamboti,** B.S.M.E., Mechanical Engineer. Tony Szamboti is a mechanical engineer from the Philadelphia area with over twenty years of experience in the aerospace industry, where he designs structures for aircraft, spacecraft, and support equipment.

**David Topete,** S.E., Structural Engineer. David Topete holds a Master's of Science degree in civil engineering and is a licensed structural engineer. He designs new structures and retrofits existing structures from concrete, masonry or structural steel. Currently, he is working on the structural design for an 11-story midrise office building in San Francisco.

**Jan Utzon,** Architect. Jan Utzon is a leading architect and is the son of the great Jorn Utzon who designed the Sydney Opera House. Jan one year ago saw fit to sign the petition after being introduced to the Architects and Engineers for 9/11 Truth and the need for a new investigation into the destruction of the three World Trade Center high-rise towers.

**Gery Warner,** P.E., Mechanical Engineer. Gery Warner holds a professional certification from the Association in British Columbia. He worked in the project engineering department of the casting plant of Alcan, which was one of the largest aluminum smelters in the world at the time (aluminum smelting involves turning aluminum oxide into molten aluminum using high voltage).

**Les Young,** High-Rise Architect. Prior to going to architecture school, Les Young was a professional firefighter in Dayton, Ohio for four years. He is currently a licensed architect in both New York State and in California. He has been involved in many large projects including oversight of several high-rise buildings, ranging in size from 14 to 40 stories. Over the course of 20 years, he has predominantly assisted with very large, difficult projects. The kind of high-rise buildings he worked on typically have a strong core and weaker perimeter columns. At 55 Second Street in San Francisco, he obtained the permits for the Infinity Towers, which are two residential towers right on the edge of the bay in San Francisco. At 350 Bush, for Shorenstein Realty, he worked with Ron Hamburger, who was the structural engineer. This project was taking place at the time of the 9/11 attacks, and it was located right across the street from the Bank of America tower (Ron Hamburger was one of the engineers involved in the official reports investigating the WTC collapse).