

# James William Jones Ph.D., P.E.

1679 Angels Camp Road #1663 Big Bear City CA 92314

[wramcapjones@gmail.com](mailto:wramcapjones@gmail.com) | (C) 714.585.4820

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## EDUCATION

1973 University of Pittsburgh Ph.D., Mechanical Engineering  
1968 University of Texas M.S., Mechanical Engineering  
1966 University of Texas B.S., Mechanical Engineering

## EXPERIENCE

2001-Present J. William Jones Consulting Engineers, Inc., President  
2003-2011 Senior Fellow, ASME-ITI, LLC ASME Washington, DC  
2003-2003 ASME White House Fellow, Office of Science and  
Technology Policy, Executive Office of the President  
of the United States  
1998-2002 MSC Software Corporation, Mechanical Solutions Division,  
Director Expert Solutions Group (MSC/ESG)  
1977-1998 Silverado Software and Consulting, President  
1974-1977 Swanson Engineering Associates Corporation, Vice President  
and Consultant  
1971-1974 O'Donnell and Associates, Inc., Vice President and  
Consultant  
1968-1971 Bettis Atomic Power Laboratory, Senior Engineer  
1966-1968 Tracor, Inc. of Austin, TX, Engineer



## AREAS OF SPECIALIZATION

Corporate Management, Corporate Marketing & Business Development, Risk Analysis due to Terrorism, Container Security, Protection of Vulnerable Infrastructure Systems, General Risk Analysis, Wildfire Causation, Finite Element Analysis Methods, Stress Analysis, Dynamic Analysis, Thermal Analysis, Pressure Vessel Design & Analysis, Fitness for Service and Reliability, Mechanical Integrity, Design & Analysis of Spent Nuclear Fuel Shipping Containers, Petrochemical and Chemical Vessel Design, Expert Witness Testimony, Failure Analysis, Electronic Packaging.

## PROFESSIONAL SOCIETIES AND HONORS

- Fellow - National Academy of Forensic Engineers (Elected 2011)
- National Society of Professional Engineers
- Fellow - American Society of Mechanical Engineers (Elected 1984)
- Fellow - Institute for the Advancement of Engineers (Elected 1985) Sigma Xi
- American Society of Civil Engineers
- Registered Professional Engineer - Pennsylvania (lapsed), California, and Illinois
- T.U. Taylor Award - University of Texas (1967)
- Five Patents and Numerous Patent Disclosure Awards while at Westinghouse  
Most recent patent issued 23 FEB 2010 (ConocoPhillips)

## CAREER HIGHLIGHTS

In his long career as a working engineer, Dr. Jones has been fortunate to participate in several opportunities that are unique. These include:

Selected as a White House Fellow in 2002 to work on Critical Infrastructure Protection.

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Working as an advisor to the President of the United States at the Office of Science and Technology Policy (OSTP) in the year following the September 11, 2001, terrorist attack, Dr. Jones developed the RAMCAP<sup>®</sup> methodology. RAMCAP<sup>®</sup> provides a method of ranking risk in all economic sectors and was adopted by the Office of Homeland Security to identify potential terrorist targets in the USA. This work continued for five years after leaving the White House, where he developed sector specific guidelines for the most critical economic sectors, such as Nuclear Power Plants, Chemical Plants, Refineries, Water Resources, and many others. His work in homeland security continues, supported by grants from The Alfred P. Sloan Foundation to develop a security process to reduce the risk of a nuclear dirty bomb. (see Section I below.)

Dr. Jones designed and optimized the acrylic pressure vessel used in the Sudbury Neutrino Observatory in Sudbury, Ontario, Canada. This was a critical component of the Sudbury experiment. Dr. McDonald, team leader of the project, was co-recipient of the 2015 Nobel Prize in physics as a result of discoveries made at the Sudbury site regarding neutrino variations. (see Section VII below)

Dr. Jones was elected the grade of Fellow in the ASME when he was forty, the first year he was eligible. His selection was based primarily upon his work in developing and teaching classes in pressure vessel design and analysis. He has taught thousands of engineers in numerous countries throughout the world

Dr. Jones was the first ANSYS Support Distributor. He taught ANSYS Finite Element classes for over 25 years to thousands of engineers. He founded a consulting engineering company with offices in California, Illinois, and Mexico.

Dr. Jones has written several historical novels as well as books on combating terrorism.

## CURRENT STATUS

Dr. Jones practices engineering with the majority of his time devoted to expert witness and forensic engineering activities. He also provides consultation to the petrochemical industry and pressure vessel design and analysis. In June 2011, the Alfred P. Sloan Foundation authorized a grant to J. William Jones Consulting Engineers for Phase II of the SLOAN - MIAN project to implement enhanced security measures to reduce the risk of a terrorist acquiring radioactive materials for use in radioactive dispersal devices ( RDD's ). Dr. Jones was the Principal Investigator for this project to reduce the risk of a terrorist attack using radioactive materials used in the Medical, Industrial, and Academic ( Nuclear ) ( MIAN ) communities. This project was suggested to Sloan by the FBI and Interpol, two very prestigious law enforcement organizations. Using the RAMCAP<sup>®</sup> risk methodology developed by ASME-ITI, a comprehensive assessment was performed of the current security requirements imposed on sites that use and store radioactive materials. This study resulted in a product which is comprised of a screening tool that will aid in determining the danger level of the materials sites are storing or using. The goal of this project is to reduce the risk of terrorists using radioactive materials to disrupt our society and inflict injury, possibly deaths, and certainly financial burdens.

Prior to the current Sloan work, Dr. Jones recently completed two other projects funded by the Sloan Foundation for which he was Principal Investigator. The first was to convene a workshop comprised of experts to determine the feasibility of extending the life of existing nuclear plants beyond sixty years. The second was to develop a risk-based methodology to access the risk of obtaining radioactive materials from medical, industrial, and academic ( MIAN ) sources that can be used to build so-called dirty bombs. He was previously funded by the Department of Homeland Security ( DHS ) to develop a general risk-based guideline ( RAMCAP<sup>®</sup> ) which is used to determine how best to allocate resources for prevention and mitigation of terrorism. These first two projects were performed as a consultant to ASME-Innovative Technologies Institute where he is a Senior Fellow.

The RAMCAP<sup>®</sup> project was developed from conceptual investigations initiated during the year Dr. Jones spent as an ASME White House Fellow in the Office of Science and Technology ( OSTP ), Executive Office ( EOP ) of the President of the United States of America. RAMCAP<sup>®</sup> is currently being used to rank terrorist threats within economic sectors as well as across sectors. More information concerning RAMCAP<sup>®</sup> is available from ASME. Dr. Jones maintains offices in Huntington Beach, California, where he provides consulting services to the petrochemical, legal,

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and commercial products sectors.

While Dr. Jones served as an ASME White House Fellow (2002-2003) in OSTP in Washington, DC, he was assigned to work on issues involving protection of critical assets from terrorist attack. In this one-year assignment, he assembled a working group consisting of representatives from ten departments of government. A five-year program for R&D requirements for antiterrorism was produced which contains the strategic plans for the agencies represented in the Protection of Vulnerable Systems (PVS) Subgroup. He was also assigned to follow the technology for inspection of intermodal cargo shipping containers. The main thrust of this project was to implement new technology that could significantly reduce the time necessary to inspect each container for weapons of mass destruction. He developed a risk-based strategy to rank terrorist threats to the infrastructure and to assess the efficacy of proposed solutions.

Before moving to Washington to serve as an ASME WH Fellow, Dr. Jones was Director of the MSC.Software Corporation, Expert Solutions Group (MSC/ESG). MSC/ESG maintains a staff of highly trained and experienced engineers who provide consulting services in the area of finite element simulation to their customers worldwide. The MSC/ESG, while under the direction of Dr. Jones, was a service-oriented team focused upon providing solutions to client companies in the areas of analytical and design engineering. In addition to the in-house staff, a group of industry experts from the MSC/ESG Technical Resources Group was employed to provide consulting to industry and government. Additionally, over 150 experienced engineers were available worldwide throughout the MSC organization to provide local responsiveness to our clients.

For the previous 22 years, Dr. Jones was President of Silverado Software and Consulting, Inc. (SSC). Before being acquired by MSC.Software Corporation in 1998, SSC was a consulting company specializing in the design and analysis of mechanical components and civil structures. SSC provided services to industry, government, and the private sector. Dr. Jones founded this company in 1977. At the time of the acquisition by MSC.Software, SSC had over 30 employees in three cities. Prior to founding SSC, he was a principal and founder of a consulting company in Pittsburgh, PA.

Dr. Jones has extensive experience in the development and application of finite element computer programs. He formerly was the ANSYS Support Distributor (ASD) for Southern California, New Mexico, Arizona, northern Illinois, southern Wisconsin, and Mexico. In this capacity, he provided technical support and consulting to innumerable major companies, including Hughes Aircraft, Rockwell, TRW, Solar Turbines, ARCO Products, Motorola, Intel, and many others.

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## **AREAS OF SPECIALIZATION**

### **I. Aerospace and Defense**

Dr. Jones has supervised and performed many FEA analyses of aircraft structures and components. While Director of the Expert Solutions Group at MSC NASTRAN, he consulted with numerous aerospace companies on the design and analysis of aircraft and spacecraft. Dr. Jones provided consulting and training to the Rocketdyne division of Rockwell Corporation at their rocket motor division in Canoga Park, CA. Working with the senior engineering staff of Rocketdyne, he was instrumental in developing new ANSYS capability in the area of random vibration.

### **II. Gas and Oil Industry**

Dr. Jones is a recognized expert in the design and analysis of pressure vessels and piping. He has taught short courses to over 10,000 graduate engineers on the application of the ASME Codes and Standards. He has traveled to remote locations in the Middle East, Venezuela, St. Croix US Virgin Islands, Denmark, Holland, Fort McMurray - Alberta, Canada, and throughout the United States. He continues to consult with refineries and manufacturers of pressure vessel equipment.

### **III. Automotive Industry**

While Director of the Expert Solutions Group at MSC NASTRAN, Dr. Jones consulted on numerous projects for automotive companies. In addition to providing consultation for United States based companies in the Detroit area, his team developed a complete analysis package for a body-in-white for Hyundai in Korea. This extensive project, lasting several years, was instrumental in increasing customer satisfaction for Hyundai.

### **IV. Wildfire Causation**

Dr. Jones has been retained by a number of legal firms to determine the cause of wildfires in matters of litigation. He has determined the cause of fires due to wire clashing, tree trimming failure, fatigue of insulators and other equipment. He has investigated more than ten fires to determine origin, causation and responsibility. He has developed educational tools for attorneys to understand wildfire causation and forensic analytical methods.

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## AREAS OF EXPERTISE

### I. Homeland Security and Risk Analysis Methodology

While serving as a White House Fellow sponsored by the ASME in the Office of Science and Technology Policy (OSTP), Executive Office of the President ( EOP ), he was assigned to develop a Research and Development (R&D) program for protection of critical infrastructure. He assembled representatives from ten agencies of the Federal Government that had the responsibility for infrastructure components. These included the Nuclear Regulatory Commission, U.S. Postal Service, Department of Agriculture, and Department of the Interior, Federal Aviation Agency, U.S. Coast Guard, and other Federal agencies. As a result of numerous meetings with senior level representatives from these agencies, it became apparent that there was a pressing need for a risk based methodology for ranking terrorist threat for the allocation of public resources.

Dr. Jones approached the ASME risk analysis committee through Reese Meisinger and others who were influential in ASME policy to encourage the ASME to become involved in the risk assessment of critical infrastructure components. This work resulted in a high-level White House sponsored workshop (Fall 2002) held under the auspices of OSTP. The primary recommendation of this workshop was to devise a risk-based methodology for ranking terrorist threat. In response to this need, a proposal was developed by Dr. Jones and others at ASME and funded by the Department of Homeland Security.

This grant resulted in the precursor of the current Risk Analysis and Management for Critical Asset Protection (RAMCAP<sup>©</sup>) methodology. RAMCAP<sup>©</sup> has become the standard by which risk assessment of terrorist threats are measured by the DHS. All of the Nuclear Power Plants in the United States have been assessed using RAMCAP<sup>©</sup>. RAMCAP<sup>©</sup> Sector Specific Guidelines have been developed for Chemical Plants, Petroleum Refineries, Liquefied Natural Gas Facilities, and Spent Nuclear Fuel Shipping and Storage Facilities, Dams and Navigation Locks, Water Treatment Facilities, Higher Education sites, and for the risk assessment of sites that store and use radioactive Materials for Medical, Industrial, and Academic ( MIAN ) purposes. The RAMCAP<sup>©</sup> methodology continues to be developed in other sectors as well as regional risk assessments. RAMCAP<sup>©</sup> has been cited in congressional hearings and testimonies hundreds of times and is often named as one of the most important achievements of DHS to date. Dr. Jones was chairman of the RAMCAP Standard committee which developed an international standard for the RAMCAP methodology. A Standard was also developed for the water sector. The EPA endorsed the use of the RAMCAP Plus<sup>©</sup> Standard for risk assessment of the thousands of water treatment facilities in the United States. The methodology has been automated and incorporated into user-friendly computer programs.

RAMCAP Plus<sup>©</sup> was developed to include the risk to natural hazards so that this risk can be estimated and compared against terrorism risk. The RAMCAP Plus<sup>©</sup> methodology has been further developed to include means of estimating the resilience of a community to recover from either a terrorist event or a naturally occurring event.

### II. Pressure Vessel Design and Analysis

Dr. Jones is experienced in the use and interpretation of applicable Codes and Standards for pressure vessel and piping design. He has personally certified more than 50 stress reports to the Class 1 Standards of the ASME Code. He has also written and certified a number of Design Specifications per ASME Code requirements. Dr. Jones holds Patent No. US 2007/0296213A1 dated December 27, 2007 for Self-Tightening Clamp Assemblies for Protection Against Full Pipe Separations.

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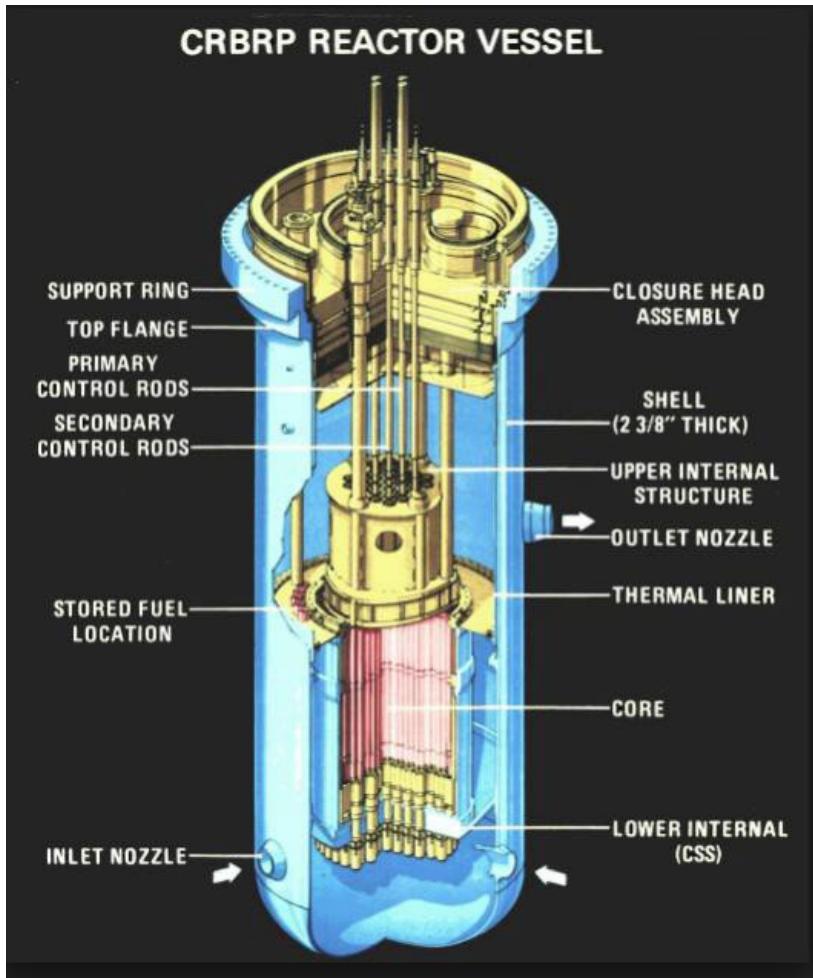
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He is a recognized expert in the design of petrochemical equipment. He has served as a consultant to refineries throughout the United States, Canada, and numerous foreign countries. He has taught courses in the design of pressure vessels for over 35 years. (See item VII).

Dr. Jones' early design experience included the design of the head, vessel and core support structures for the Trident Class nuclear powered submarines. He has also performed design analyses of the control rod drive mechanism used for the Trident nuclear submarine power plant, as well as other related valves and components.



Dr. Jones performed the design and analysis of a number of components used in the Clinch River Breeder Reactor (CRBRP) and the Fast Flux Test Facility. He participated in the design and/or analysis of the CRBRP head, core support structure, bypass flow module, upper internal structure including the jacking mechanisms, and the horizontal baffle. For the Fast Flux Test Facility, he worked on a number of components, including the sodium isolation valves, mixing components, sodium coolant piping and guard vessels for the primary sodium pump, and the intermediate heat exchanger.

Dr. Jones performed the finite element analysis for the large autoclave used by Boeing in Everett, Washington, to cure composite materials.

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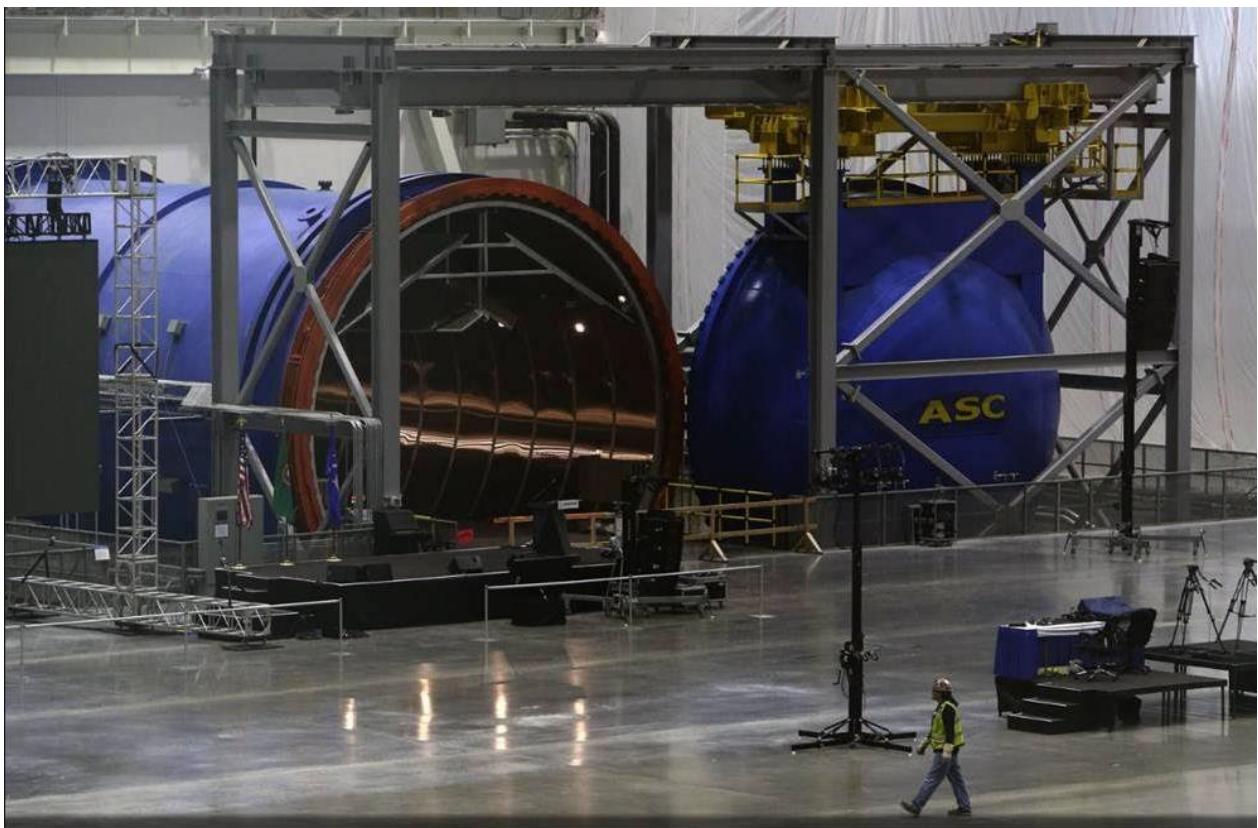
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Boeing's cylindrical autoclave (120 feet long and 28 feet in diameter).

The autoclave, which has a quick opening closure to reduce production time, was designed by ASC Process Systems, Valencia, CA. The cylindrical autoclave is a pressurized oven for baking the composite 777X wing parts to hardness. It is 120 feet long and 28 feet in diameter. The current 777 carries 365 passengers. The new 777X will carry 408.



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Boeing shows off new 777X wing center. May 19, 2016

[http://www.seattletimes.com/business/boeing-aerospace/boeing-shows-off-new-777x-wing-center/?utm\\_source=news.google.com&utm\\_medium=Referral&utm\\_campaign=rss\\_editors\\_picks\\_feed\\_businesses&google\\_editors\\_picks=true](http://www.seattletimes.com/business/boeing-aerospace/boeing-shows-off-new-777x-wing-center/?utm_source=news.google.com&utm_medium=Referral&utm_campaign=rss_editors_picks_feed_businesses&google_editors_picks=true)

### III. Forensic Engineering and Expert Witness Testimony

For approximately the past 30 years, Dr. Jones has provided consulting services for legal matters which involve mechanical engineering expertise. He has been retained as an expert witness in more than 200 cases. The cases have ranged from relatively straightforward ladder failures to fires and explosions that caused over \$100 million in damage. He has performed forensic evaluation including extensive computer simulation to determine the cause of failure and to recreate events. He currently is providing consultation to the team involved in the \$5 Billion lawsuit against Repsol Peru for an oil spill in Peru several years ago resulting from a tsunami. He has worked with teams of multidisciplinary experts to reconstruct complex events leading to catastrophic failure. This work has included vessel explosions, piping system failures, civil structure collapse, and transportation events. He has been deposed more than 80 times and testified in court on numerous occasions. 'Forensic Engineering' is defined as the application of the art and science of engineering in matters which are in, or may possibly relate to, the jurisprudence system, inclusive of alternative dispute resolution. (National Academy of Forensic Engineers - NAFE 1991)

Dr. Jones is a Fellow in the National Academy of Forensic Engineers, [www.NAFE.org](http://www.NAFE.org)

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## **IV. Dynamic Analysis Experience**

Dr. Jones has performed numerous analyses of structures and components subjected to complex dynamic environments. These include seismic response spectra evaluations, harmonic response calculations, random vibration (PSD) evaluations, and shock loading. The components and structures evaluated included large power plant structures (both fossil and nuclear power plants), aircraft components, electronic components, pressure vessels, and other civil structures and components. He has contributed to the, development of numerical techniques to perform dynamic random vibration analyses using commercially available software.

In 2001, Dr. Jones spearheaded the development of a training course in automotive durability for a major automobile manufacturer. This course covers the fatigue evaluation and life prediction of a complete vehicle subjected to a time-history displacement input that simulates a test track. The analysis method uses modal superposition techniques and allows the analyst to predict crack initiation in the body of the vehicle including spot welds. The results of the analysis procedure have been compared to actual test results and found to be highly accurate.

Dr. Jones' dynamic experience also includes analytical investigation of highly nonlinear structures using the explicit codes DYNA 3-D and MSCDYTRAN. A wide range of dynamic problems have been solved including ship collision, concrete impact studies, automobile crash, motorcycle impact, and spent nuclear fuel impact limiter designs. His work in the area of impact limiters for spent nuclear fuel containers resulted in a patented impact limiter design that was adopted for use in Europe and the United States for shipping spent nuclear fuel.

## **V. Design and Analysis of Shipping Containers**

Dr. Jones has been involved in the design and analysis of new and spent fuel shipping containers since 1968. He has performed the structural analysis of many shipping containers for hypothetical accident and nominal transport conditions. He was responsible for licensing analyses for the Bettis Atomic Power Laboratory while employed there. As a consultant at O'Donnell and Associates, he was involved in the licensing of containers for the Nuclear Energy Systems Division of Westinghouse. He prepared the accident analyses as well as designing the impact limiter for the S8G power unit shipping container (a new fuel shipping container for Knolls Atomic Power Laboratory) under contract to Bingham-Willamette Company, Portland, Oregon.

For over twenty years, Dr. Jones has served as a consultant to Gesellschaft fur Nuklear Services GMbH (GNB), a major supplier of spent fuel casks located in Essen, Germany. During this time, Dr. Jones has performed analyses of a number of casks that have been licensed for storage or undergoing the approval cycle for transportation licensing. He is familiar with the licensing review process and the personnel at United States Nuclear Regulatory Commission (U.S. NRC) and the German authority BAM (Bundesanstalt für Materialforschung und-prüfung) (German meaning Federal Institute for Materials Research and Testing). He has developed impact limiters for shipping containers and performed both analyses and confirmatory tests to validate these designs. In May 2001, Dr. Jones (along with Harry Spilker) received a U.S. Patent (US 6,280,127 August 28, 2001) for a novel impact limiter design. Dr. Jones has performed nonlinear time history analyses of cask drop accidents including studies to determine the dynamic response and deformation time-histories for complex cask geometries. His work in this area also includes nonlinear response of concrete pads subjected to cask impact. Publication Number 22 describes some of this work.

## **VI. Electronic Packaging**

Dr. Jones has been involved in electronic packaging for almost his entire career. His first engineering position was with TRACOR Inc. of Austin, Texas, where he was the mechanical engineer in charge of packaging the electronic controls for electronic countermeasures ( ECM ) devices. These devices were installed in six different military aircraft. This work included design, analyses, and testing of the fire control system as well as the actual ECM Dispenser.

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Dr. Jones has been responsible of analyses for a number of electronics suppliers including Motorola (several divisions) and Intel, as well as other companies including integrated circuit (IC) suppliers and consumer and military product suppliers.

Based upon the experience acquired in performing a wide range of analyses for various conditions encountered in electronic packaging he developed a comprehensive five-day course which has been presented to companies in the United States and Asia. An example of a condition that can be analyzed using these techniques is the fabrication stresses resulting from the bonding of several different materials such as silicon, copper, solder, mold compound, etc. The goal of these analyses is to predict the success of the package and eliminate premature failure due to mold compound cracking, delamination, die cracking, etc.

The course also covers the dynamic analysis of boards and assemblies with loading due to shock and vibration, random vibration and static "g" loading. Heat management is also covered, including the use of CFD programs to evaluate conjugate heat transfer in complex flow patterns. Dr. Jones has presented this short course several times in Taiwan, Japan, and Korea as well as the United States.

## VII. Design and Analysis of Acrylic Structures

Dr. Jones has designed and analyzed many aquarium structures constructed from acrylic material. He has developed seismic analysis methods for the evaluation of such structures that include the sloshing effect of the water. Projects have included the Long Beach Aquarium, Chicago's Shedd Aquarium, SeaWorld, and Walt DisneyWorld projects, a good number of Rainforest Cafe projects, the Monterrey Bay Aquarium, and a number of smaller installations. This work also includes the design and analysis of the structural steel supports for aquarium projects.



Shedd Aquarium, Chicago, IL



T-Rex Aquarium Walt Disney World, FL



Long Beach Aquarium, California



Monterey Bay Aquarium, California

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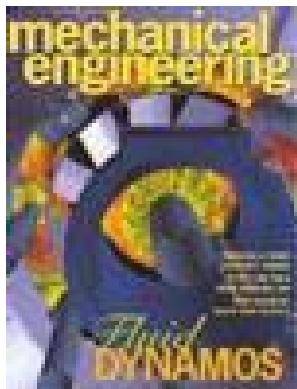
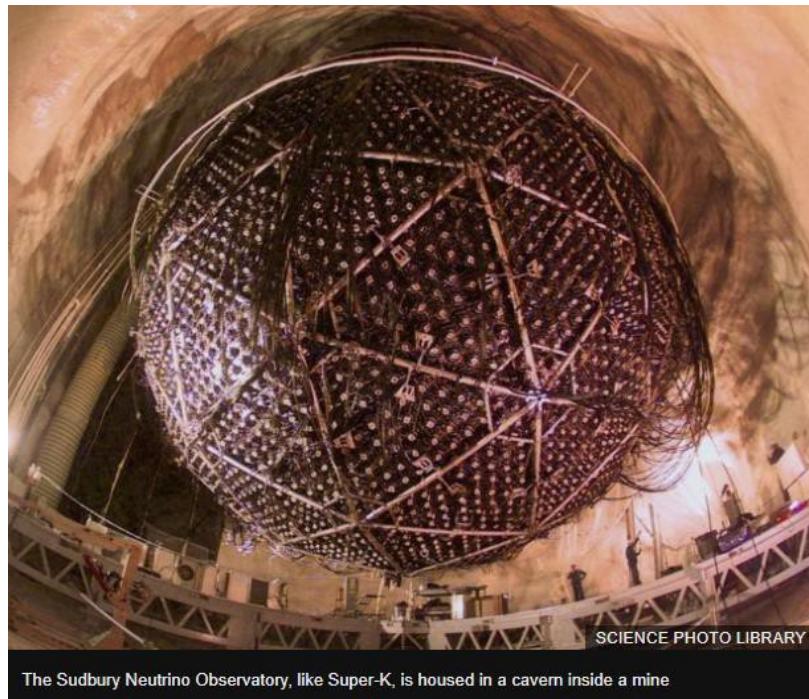
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Dr. Jones was the lead structural analyst for the Sudbury Neutrino Observatory: a 10-meter diameter acrylic sphere constructed in a nickel mine in Sudbury, Ontario, Canada. <https://www.bbc.com/news/science-environment-34443695>



This acrylic sphere contained heavy water (  $D_2O$  ) and was surrounded by highly purified light water. The sphere was part of a scientific project designed to measure neutrino activity for a basic physics experiment. The sphere was designed to resist rock bursts, implosion as well as static loadings.

A description of this work as well as some of the results obtained in the physics experiments was published in Mechanical Engineering Magazine, April 2002.

This ME Magazine, April 2002 article is available on the JWJCE.com website.

The 2015 Nobel Prize for physics was awarded to Arthur B. McDonald for the discovery of neutrino oscillations, which were discovered for the first time using this structure.

Dr. Jones has also designed several hyperbaric chambers that utilize full-body acrylic cylinders and windows. These chambers, used to provide oxygen therapy, must meet the ASME Code, Section VIII Division 1 and the ASME Pressure Vessels for Human Occupancy (PVHC)Code.

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## **VIII. Teaching Experience**

Dr. Jones has taught courses for the University of Pittsburgh, Pennsylvania State University; The Center for Professional Advancement; and the American Society for Metals. These courses have included pressure vessel design and analysis, finite elements theory and application, and structural analysis. He has presented courses at locations throughout the world including Holland, Canada, Denmark, Ireland, Switzerland, Kuwait, Saudi Arabia, the United Arab Republic, and Venezuela. Dr. Jones has also presented these intensive short courses for corporations including ARCO, Westinghouse (Bettis Atomic Power Laboratory), Pfaudler Corporation, Syncrude (Canada), and Citgo Petroleum.

For more than 20 years, Dr. Jones taught training seminars on the use of the ANSYS program approximately eight weeks per year. These seminars included Heat Transfer, Dynamics, Substructures, Nonlinearities, and Optimization as well as the standard Introductory Seminar and Solid Modeling. These courses were also taught as in-house seminars and have been presented at a number of major corporations.

## **IX. Management Experience**

Dr. Jones has served as group leader and program manager on numerous projects requiring the services of a multi-disciplined team of engineers and scientists. In addition, Dr. Jones was Vice President of O'Donnell and Associates and Swanson Engineering Associates Corporation. In both companies, he was responsible for managing engineering analysis projects and business development. He was president of Swanson Service Corporation (SSC) for more than 20 years. After founding SSC, he grew the company to include more than 30 employees in three offices. SSC was acquired by MSC Software Corporation in 1998. Dr. Jones was Director of the Expert Solutions Group after being acquired by MSC.

## **X. Design of Consumer Products**

In addition to performing the design and analysis of cutting edge technology products such as are commonly found in the nuclear, aerospace, and electronics economic sectors, Dr. Jones has also been successful in developing designs for consumer products for mass production and application to more traditional industry sectors. His work on the design of piping connections in the petroleum refining industry resulted in a patent for a shrink-fit stress collar that greatly increased the fatigue life of a pipe to manifold weld joint. In 2004, while working on cracking problems in petroleum refinery piping, Dr. Jones designed a low-cost, high reliability clamping mechanism that prevents a circumferential weld joint from failing in service. A patent was issued for a device, which resulted from this work.

Over a five-year period, Dr. Jones designed a line of automobile jacks known as “Safety Jacks”. The inventor of the concept retained Dr. Jones to redesign the products to reduce manufacturing costs while increasing the capability of the jacks both in function and load capacity. As a result of this work, the client received large orders from a major retailer for the professional model. A contract for an OEM version for light trucks and SUVs was negotiated with one of the major U.S. automobile companies. Two more consumer versions were developed at different price points.

FILM CLIP from the 2007 ASME Congress – Seattle, WA Dr. Jones presenting before 1,000 ASME members.  
Web link: [Http://origin.eastbaymedia.com/~asme/asx/Congress07/ASME\\_2007\\_Congress\\_Pt\\_1.aspx](http://origin.eastbaymedia.com/~asme/asx/Congress07/ASME_2007_Congress_Pt_1.aspx) ASME

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## PUBLICATIONS

1. T. C. Woo, J. W. Jones, T. C. Ting, “Transient and Residual Thermal Stresses in a Viscoelastic Cylinder,” Proceedings of the 12th Mid-western Mechanical Conference, Development in Mechanics, Volume 6. (Also presented at the Second Canadian Congress of Applied Mechanics), May 1971.
2. J. W. Jones, “3-D Stress Analysis,” Machine Design, August 10, 1972.
3. J. W. Jones, “Limit Analysis - An Inquiry Into the Ultimate Performance of Structural Parts,” Machine Design, September 20, 1973.
4. J. W. Jones, J. G. Wagner, “Conical Shell Inversion - An Approximate Energy Analysis,” Transactions of the ASME, February 1973, Paper No. 72-PVP-4.
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<https://www.amazon.com/Last-Viking-Wilhelms-Thousand-Year-Valhalla/dp/0595503527>

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### COMPETITION

#### **2016 ORANGE COUNTY FAIR**

Judges Award, HA&C-406 Upcycled Crafts Division, July 2016

Second Place, HA&C-406 Upcycled Crafts Division, July 2016

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## DEPOSITION AND TRIAL TESTIMONY CASES OF JAMES WILLIAM JONES PH.D., P.E. (Listings from September 1999 to date)

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2. *Magana v. Wallboard*, Los Angeles Superior Court (LASC) Long Beach, Case No. NC 024592, Deposition; Trial Testimony.
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(Listings from September 1999 to date) *continued:*

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