

CBHS ALUMNI

SCIENTISTS, ENGINEERS AND ARCHITECTS

BEFORE 2005

CBHS ENGINEER ALUMNI

BEFORE 2005

CB ENGINEER ALUMNI BEFORE 2005

NAME	CL AS S	SPECIALTY	NOTES
Ackerman, Paul J.	57	Land Surveyor	State Licensed
Archangelo, David J.	75	Ind. Syst. Engineer	Interface Engr. Inc.
Barbadillo, Stacy P.	81	Elect Engr	Microchip Technology
Barsotti, Ralph J.	54	Logistics Proj. Mgr.	USAF
Beck, William Michael	95	Civil Engr	Const Insp.
Bencken, George E.	54	Applications Engr	Envirotech Pump Sys.
Bettencourt, Rodney E. Jr.	92		Control Sys. Intl.
Boessow, Daniel S.	53	Elect / Syst. Engr.	Assist. VP SAIC
Bottaro, Frank D.	58	Civil Engr.	Ca Dept. Water Res.
Brenner, Chris	78	Tech.	Hewlett-Packard
Brooks, John M.	56	Sta. Engr.	CA Dept Corr.
Brower, daniel Tyler	94	Mech Engr.	UPS
Caetano, Roger P.	53	Sofyware Engr	Lockheed Martin
Canelli, Patrick L.	68	Maint Enge	Best Western
Cardosa, mark A.	69	Civil Engr.	VP, Biggs Cardosa Assoc.
Caruso, John	84		Ch. Engr, Holiday Inn
Carvalho, Charles A.	74	Bldg Equip.	USPS
Chan, Terrin T.	99	Elect Engr.	Gen Atomics Aero Syst
Cleary, Mark A.	78	Design Engr.	Verifone
Cooling, Scott E.	83		Engr Mgr, UCD
Costa, Damian Edward	91	Chem Engr.	Oper Mgr. Frito-Lay Inc.
Cote, Mrs Andrea Sommerfield	79		
Crawford, Thomas N.	64	Mech Engr.	PGE
Crettol, James J. Jr.	73	Tele Com.	CA Dept. Water Res.

CB ENGINEER ALUMNI BEFORE 2005

Davis-Conklin, Mrs. Justina	86	Civil Engr.	Sac Co. Dept. Trans.
Delgado, Robert	82		Engr. Mgr., Motorola
Drucker, Mrs. Mary B.	91		Engr. GE
Eggers, Dr. Thomas C. XIV	99	Environ. Engr.	ENV America
Estrada, Duane A.	74		Princ. Engr. Raytheon Sysys.
Fenech, Eugene J.	49	Nuclear Engr.	General Atomics
Fenner, Paul Andrew	87	Mech Engr .	ConQuip Inc
Fischer, Dennis C.	54		
Flewell, Jerome J.	62	Chem Engr.	Bechtel Corp.
Galliani, John L.	76	Proj Mgr.	Mark III Engr. Contrs.
Gau, Thomas M.	66		Dep. Dir. San Joaquin Co. Pub. Wks. Dept.
Gemsch, Joseph F.	58		
Ghelfi, Peter	82		Dir Engr. SAFCA
Gonsalves, David Peter	88		AT&T
Graham, Robert D. III	83	Mech Engr.	Lockheed Martin
Gray, Tom	80	Civil Engr.	Southern CA Water Co
Gregory, Wayne E.	91	Mech Engr .	
Guess, Jesse E.	98	Land Surveyor/ Engr.	LDC Design Group
Gutierrez, Mrs. Faith	73		
Harling, Martin	84	Elect Engr.	SMUD
Harrington, James P.	37		
Hashimoto, Michael	84	Civil Engr.	Cal Trans
Healy, Keith Edward	86		Lockheed Martin
Henderson, Kenneth J.	84	Civil Engr.	HDR Engrg. Inc.
Herzog, Francis C.	50	Mech/Aerospace	Lockheed Martin
Hilson, Christopher W.	1		
Ito, Larry	80	Chem Engr.	Tech. Mgr. Dow Chemical Co.
Jaime, Mario R.	57	Environ Engr.	IBM

CB ENGINEER ALUMNI BEFORE 2005

Jurach, Thomas A.	58		
Keating, Jerome W.	41		Pres. SKS Diecasting & Machining Co.
Keener, Kerry K.	55		Supv. Mfg. Engr. Owens Illinois Inc .
Kuhlman, Robert C.	52	Mech Engr.	Mgr. Lab Svcs. CA Air Res. Bd.
Lang, Carl T.	49	Elect Engr.	US Corps. of Engrs.
Lawrence, Sthephen P.	61	Elect Engr.	Turlock Irrig. Dist.
Laws, Thomas L.	58	Security	Booz, Allen & Hamilton
Lawson, H. James	54	Civil Engr.	
Leahy, Daniel M.	47	Elect Engr	Gen. Elect. Co.
Lee, Steve J.	85	Civil Engr.	State of CA
Legarra, James R.	66		CPI
Lemieux, Paul J.	93	Bldg. Maint.	SMUD
Leon, Felipe PE	81	Elect Engr.	US Corps. of Engrs.
Lopez, Max	79		Dir. Product Mktg. Cambridge Custom Inc.
Lovato, Noel David	90	Compliance Engr.	Intertek
Machabee, William J .	48	Stationary Engr.	Del Web Corp.
Makris, Tom	81	Civil Engr.	
Malaki, Michael R. Jr.	76	Plant Operator	Regional Waste Treatment
Maller, StephenV.	71		Dep. Dir. CA Trans. Comm.
Mallery, Carl F. Jr .	83		Ensign-Bickford Aero. & Def. Co.
Mann, Sean Howard	89		
Manno, Peter L.	60		
McCoy, James W.	54	Civil Engr.	
McGrew, Kent J .	63		Reagentech Inc.
Mendenhall, Thomas J.	43	Plant Mgr.	Teichert Agg.
Mette, Edwin J.	68	Mech Estimator	Mark III Engr. Contrs.
Mette, Stanley Richard	82	Planner	Wood Rodgers Inc.

CB ENGINEER ALUMNI BEFORE 2005

Meyers, Lucian J.	42		
Moitoso, Manuel A.	68	Engr Estimator	
Montemayor, Joseph	77	Clinical Engrg.	Medtronic Inc.
Moore, Scott douglas	86		
Moreno, Mario, Jr.	93	Civil Engr.	City of Sacramento
Morrow, matthew D.	98		
Murphy, Steven R.	79		Gencorp Aerojet
Nguyen, Dung T.	97	Mech Engr.	Dagher Engrg.
Paalman, Hunter H.	51	Chem Engr.	Dow Chemical
Parino, Sam	77		Ch. Info. Officer ChevronTexaco
Parra, Thomas I.	85	Software Engr.	VerifFone
Pechacek, Robert E.	50	Elect Engr.	
Pesavento, Donald W.	56	Elect Engr.	
Pesce, Robert E.	65	Stationary Engr.	US Merchant Marine
Peter Richard R.	64	Materials Engr.	CA Dept. Trans..
Piacentini, Chris P.	85		PG&E
Porter Joseph	67	Mech Engr.	Conoco
Puentes, Fil Jr.	87	Network Ping Engr.	Pack West Telecom.
Raimundo, Armando L.	44	Water Research Engr.	
Rakela, David A.	63	Operating Engr.	
Ralph, Terrence M.	66		Engrg. Mgr. FAA
Rankins, Mrs. Erica L.	92	Civil Engr.	CA Dept. Trans..
Rawlins, Walter James IV	90	Bio. Med. Engr.	
Riley, Kevin Michael	89	Civil Engr.	CA Dept. Trans..
Riojas, Ed Chen-Yu	97	Software Engr.	Apple Comp.
Robinson, Jeffrey H.	97		
Rojas, Bud A.	97		Hewlett-Packard
Rolufs, Robert H.	50		AT&T
Sander, Kenneth S. PE	68		Mgr. Tech Oper. FAA
Sandlin, Peter John	90	Civil Engr.	Barrish, Pelham & Partners Inc.

CB ENGINEER ALUMNI BEFORE 2005

Savarino, Michael	66		
Schnetz, Richard J.	62		Lawrence Livermore Lab.
Semon, Joseph A.	65		Interwest Consulting Gp.
Shamrock, Jeffrey Michael	86	Elect Engr.	Hewlett-Packard
Sherman, Richard J. PhD	57	Elect Engr.	Lockheed Martin
Silva, Jess P.	70	Environ. Engr.	City of West Sac.
Skarbic, Anthony M.	58	Elect Engr.	City of Redding
Skokan, Joseph M. Jr.	80		JJ Rebar Corp.
Smith, Dyke J.	64	Fire Systems	Honeywell Intl.
Smith, Gordon H.	42		
Smith, Stephen D.	75	Civil Engr.	Mackay & Soms
Smolich, Anthony J .	41		CA Office State Arch.
Spease, Kevin David	86	Syst. Engr.	Northrop Grumman
Stefan , Richard J.	71		SMUD
Steffens, Gary R .	51	Mech Engr .	CA Dept. Water Res.
Tancreto, James E.	61	Civil / Struct Engr.	NFESC
Tremblay, David A. Jr.	94	Syst Arch.	Hewlett-Packard
Tucker, Raymond	52	Civil Engr.	President, Radco
Tuma, Jerry A. Sr.	85		City of Lake Havasu
Valdez, Robert	78	Field Svc Engr.	ADAC
Valdez William A. Sr.	85	Network Engr.	Surewest
Varozza, Jack A.	85		VP Peabody Engr.
Ware, Ramon Arthur	89	Customer Engr.	Applied Materials
Watkins, Kevin M.	75	Stationary Engr.	State of CA
Weisickle, Bob	70		Lab Mgr. Hewlett Packard
Weninger, John	80	Civil / Struct Engr .	SESOL
West, Robert P.	81	Operating Engr.	Lucas Marine Const
Wexted, William F.	52	Electronic Supv.	GTE Govt. Sys.
White, Mack W.	52	Civil / Struct Engr.	LBDG

CB ENGINEER ALUMNI BEFORE 2005

Wilson, Edward L.	50	Civil / Struct Engr.	Professor, UC Berkeley
Wilson, John P.	71	Data Analyst	SBC Comm.
Wulfert, Thomas M.	62	Surveying & Mapping	Thomas M. Wulfert Co.
Yap, Eric S.	85	Elect Engr.	
Zeman, Mrs. Anne Marie	78	Cust. Engr.	Teichert Const.
Zenovieff, George A.	68	Mech Engr.	Mark III Engr. Contrs.
Zentner, Mark A.	69		Butler Heating & Airconditioning
Zupan, Matthew D.	92		

3-19051

DANIEL S. BOESSOW
Senior Systems Engineer

CLEARANCE: Secret (verified)

EDUCATION: M.B.A., Florida State University, 1971

B.S.E.E., University of Santa Clara, 1957

RESUME SUMMARY:

More than thirty-seven years' experience. Program management; organization, planning, and startup of new contracts; technical supervision and management of large military test range support operations; systems engineering; communications engineering; office automation; computer networks; large data base systems and proposal management.

RELEVANT PROFESSIONAL HISTORY:

SAIC (SASIG) (4/97-1/99). Program Manager. Program Manager for three Delivery Orders in Division 5545 supporting the Defense Information Systems Agency (DISA) in the development of a Detect security system. This is a software development and COTS/GOTS integration project valued in excess of \$15M. Managed 40 employees developing state-of-the-art security software. Prepared and negotiated Delivery Orders with DISA for follow-on tasking. Supported the preparation of two other Division proposals.

Systems Engineer (8/95-4/97). Proposal Manager for \$50M Information Technology Support Services contract to the Naval Reserve Information Systems Office (NRISO), New Orleans. Supported Best and Final offer effort for Tier 1 Program, which resulted in a contract award. Since September 1995 primary assignment was Technical Director for USAF Base Level Modernization Proposal, a \$400M bid. Supported all aspects of proposal preparation including presentations to the Government evaluation Team.

Manager of Division 0561, (3/95-8/95), Supported FBI/III Program for five months as the System Development Manager. Pursued state and local government Criminal Justice Information systems business opportunities.

Manager of Division 0561, (11/89-3/95) Managed the completion phase of the

Navy Key Distribution System (NKDS) ACMS replacement system. Planned and implemented contract startup of NKDS, a full-scale engineering development system for production, distribution, and tracking of cryptographic keys. Based on a 3.5 GB Oracle RDBMS, the NKDS required systems design, trade studies, incremental development, test, support for Government data base conversion and final acceptance test. Managed a 90 percent growth of the NKDS contract with award fees of more than 10 percent. Directed the implementation of software development procedures and processes resulting in a Software Engineering Institute (SEI) Level 3 rating for NKDS. Member of corporate committee for software process improvement.

Senior Systems Engineer (5/89-11/89). Proposal Manager. Performed proposal analysis, management process, and systems engineering for NKDS opportunity. Directed cost estimates for all contract work elements. Directed the Preparation of data packages for Navy fact-finding team that traveled to San Diego to perform an in-depth review of the SAIC proposal. Team efforts resulted in contract award in November 1989.

Activation Manager (1/89-5/89). CEMS IV Air Force contract. Planned and implemented project startup. Prepared and delivered both Project Management and Training deliverables to the Air Force Program Office.

Program Manager (10/87-1/89). Responsible for special projects that included: Service order support to elements of Navy contract at Vallejo, CA.; System Design Engineer for an optical storage and management system for the San Diego Regional Navy Exchange Support Office. Proposal manager for this project. Marketing investigator for new business at JPL.

SAIC, Senior Staff Engineer (6/87-10/87). Reported to the Southern Operations Center executive vice president. Prepared capabilities briefings and made presentations to prospective customers.

Computer Sciences Corporation San Diego, California (1985-4/87). Operations Manager. Reported to the vice-president for large-scale automated financial management systems development. Manager of Product Definition and Evaluation Department; analyzed product specifications and conducted testing. Product was STAFS, to be installed in 14 U.S. Navy Laboratory sites. The systems, composed of DEC hardware and 2 million lines of code, provide complete financial, accounting, supply, inventory, asset control, and cash management for the Navy Laboratory group. Was also

responsible for managing the efforts of 42 professional employees supporting the acceptance test program.

Computer Sciences Corporation, Edwards Air Force Flight Center, California (1983–1985). Operations Manager. Responsible for directing the operation through four departments: Aircraft Flight Test, Range Support, Flight Data, and Engineering; and two staff sections: work control and logistics. These operational elements comprised a staff of 400 employees. Directed the formulation of operational plans and procedures. Interfaced with AFFTC range squadron management and staff. Reported to the CSC-ATD Center Director.

Computer Sciences Corporation, Ridgecrest, California (1978–1983). Deputy Project Manager. Provided support to the Naval Weapons Center (NWC), China Lake Range Control Center (RCC) Project Office, and Automated Technical Information Processing System (ATIPS) Project Management office. Responsible for coordination of the NWC Office Automation Prototype System. Developed interface specifications for range systems (telemetry, on-axis radar) to supply data to the RCC Integration and Processing System (RIPS). Provided assistance in generating the systems specification and RFP package for RIPS and ATIPS. Provided technical support during the design and installation of RIPS. Directed an analysis of Data Reduction Center requirements in support of Aircraft Project offices at NWC. Scheduled work, allocated personnel to tasks, reviewed technical output and prepared schedule and cost estimates for new work.

Computer Sciences Corporation, Kennedy Space Center, Florida (1977–1978). Manager Data Systems Department. Responsible for technical direction and administrative support for a department of 135 people, including senior computer scientists, programmer/analysts, computer operators, and technical writers divided into three major branches. The department operated the Central Data System (CDS) in support of the NASA Shuttle Launch Processing System (LPS) at Kennedy Space Center. Applications software, real-time interface, and simulation software were provided by the CDS Software Branch. Operation of the Dual Honeywell 66/80 multiprocessing computers was performed by the CDS Operations Branch and complete support of the telemetry ground station was provided by the Record/Playback Subsystem (RPS) Branch. Responsible for preparing department budgets, allocating resources, adjusting manpower mix and participating in union negotiations.

Federal Electric Corporation, Kennedy Space Center, Florida, (1975–1977). Manager Communications Department. Managed a department of 250 technical

personnel engaged in the engineering, operation, and maintenance of voice, video wideband, radio, data, and cable systems installed at the Kennedy Space Center. Directed the work of four branch superintendents and one staff operations support section manager. Prepared department budgets, manpower mix, organization changes, and recommendations/reports in the communications area for the FEC Project Director. Participated in union negotiations and NASA contract negotiations. Superintendent, Voice Systems Branch (1969–1975). Managed a staff of 160 engineers and technicians who operated, maintained, and modified all ground support voice communications systems on the Kennedy Space Center. Superintendent, Engineering and Planning Branch (1967–1969). Managed a staff of 140 engineers and configuration specialists supporting the operation, maintenance, and modification of all operational ground communications, closed circuit TV, timing, radio, and data transmission systems.

RCA Service Company, Kennedy Space Center, Florida (1966–1967). Leader, OIS and Audio. Performed as lead engineer for launch complex, public address, and intercommunications systems. Reviewed and approved work packages completed by engineers. Provided engineering recommendations and data on paging and audio systems to operations personnel, project management and NASA.

National Aeronautics and Space Administration, Kennedy Space Center, Florida (1964–1966). GS-13, Design Engineer. Performed engineering planning and design tasks for Facilities Engineering Division on wire and radio communications system. Responsible for engineering tasks on the Operational Intercom System - Radio Frequency (OIS-RF) for the Apollo program, acting as Government technical representative for communications contracts.

Brown Engineering Company, Huntsville, Alabama and Kennedy Space Center, Florida. (1962–1964). Engineer. Worked on a variety of electronic engineering projects including closed circuit TV camera chain design, video switcher development, and RF and audio communications system design. Processed from engineer B to engineering section supervisor.

Military Service (1958–1962). Captain. Three and one-half years active service, Instructor Pilot, U.S. Army Fixed Wing Aircraft.

RCA, Harrison, New Jersey (1957–1958). Junior Engineer. Developed test equipment and procedures for life testing of microwave tubes.

COMPUTER PROFICIENCY:

Operating Systems: MPX 32, VMS
Hardware Systems: Gould SEL 3277, VAX-11/780, DEC 6500, Ethernet,
Honeywell 66/80
Languages: Pascal, BASIC

RELEVANT COURSEWORK/CERTIFICATIONS:

M.S.C.S. (coursework 35 units), California State University, Chico, 1986

April 2008

GETTING TO KNOW JOHN J. WENINGER JR., S.E., SECB

By Diane Gould, S.E.

If you have not yet had the opportunity to meet John Weninger, please allow me introduce you. Not only does he hail from my home town of West Sacramento, he is also very modest and has a self-deprecating sense of humor. John obtained his B.S. in Civil Engineering from CSUS in 1985, then returned for his M.S., which he completed in 1987 while working full time. John currently heads up the Sacramento branch of SESOL (Structural Engineering Solutions), while his boss Bill Warren runs the Southern California office. He is enjoying this venture as it allows him to continue designing, while branching out into forensic engineering and expert witness arenas.

John has been an active member of SEAOC for many years. He has volunteered countless hours and served many roles, including: 7 years as Secretary (at that time, Secretary was also responsible for producing the newsletter); 1 year as Treasurer; 2 years on the Board of Directors; Vice President; President, and Chair of the 2003 Convention Committee (which he served concurrently with his term as President). He is currently a member of the AISC Quality Certification Committee, and Treasurer of the SEAOC Foundation.

Fresh out of school with his B.S., John went to work for David Crane & Associates in Sacramento. After a few years, he found himself in the now-infamous recession of the early 1990's. Some companies folded; most who survived did not escape the painful process of staff reduction. Those were undeniably difficult times for everyone, but perhaps were especially tough on engineers of John's age. John and his peers had a few years' experience under their belts, but were still relatively low on the seniority totem pole - which meant when times got tough, they were among the first to go. John recalled one situation where he was given a Christmas Bonus and a raise; kudos for a job well done, but then just 2 short months later was laid off.

Yet even adversity brings good things in the form of valuable life lessons. Surviving the recession underscored for John the importance of effective networking - maintaining good contacts

though SEA OCC and friends in the industry. John's networking skills helped him maintain continuous employment during the recession. On more than one occasion, John got his next job lead via a personal reference/referral.

We also discussed notable/interesting projects. John cited his retrofit designs for the Pacific Bell Building on 13th and J as well as the DMV building on 24th and Broadway. John recalled that, at one time, those 2 buildings were at the top of an "ugliest buildings in Sacramento" list compiled by a local architectural group. Now it might be easy to dismiss such buildings, presuming that, due to their architecturally "boring", "boxy" appearance, the structural retrofit should be pretty straightforward. But John shared with me some of the complexity as well as the amount of research and analysis he had to perform for those two retrofits. In the case of the Pacific Bell building, John had to work with varying construction methods and materials stretching from the early 1900s to the 1960s, not to mention some dicey remodels over the years. Although from street level, it looks like one massive building, it was actually an assorted cluster of buildings built adjacent to each other – with mismatched floor levels, exit stairs that extended from the 9th floor of one building to the roof of another, etc. John's retrofit successfully tied all the disparate buildings and additions together.

When asked about influential and inspiring people in his career, John mentioned both Dr. Ajit Virdee and Mac White. Dr. Virdee was John's professor and advisor at CSUS. John told me that Dr. Virdee was not only extremely intelligent but also a great instructor with a passion for engineering. Dr. Virdee was also active in SEA OCC and was elected to the College of Fellows. Dr. Virdee invited John to SEA OCC Student Night – where he introduced John to the man who would become his future employer – David Crane. John first met Mac White at Lionakis Beaumont Design Group (LBDG) and credits Mac with teaching him to never lose sight of what's truly important. He recalled Mac would often say, "don't swat at gnats and let the eagles fly by".

John lives in Land Park with his wife Rachel and their two

children. When he's not working or attending one of his children's many school and extracurricular activities, John enjoys playing Fris- bee Golf. He is also an avid reader, and is always trying to encourage others to read, a trait which apparently earned him the nickname "Book Pusher" among some of his former coworkers at LBDG. So, if you're ever in need of a good book to read, just ask John. I'm sure he'll be more than happy to recommend one or twelve.

Professor Emeritus Edward L. Wilson



Edward L. Wilson
Structural Consultant

Education

D. Eng. University of California, Berkeley, 1963

M.S. University of California, Berkeley, 1959

B.S. University of California, Berkeley, 1955

Professional Societies

Member, ASCE, American Society

Biographic Details

Over fifty years of professional experience in Civil, Mechanical and Aerospace Engineering.

Former Professor and Vice Chairman of the Civil Engineering Department at University of California at Berkeley (1965-1991).

Published over 180 papers, reports and books. Supervised 29 Doctor's Degree Students

Appointed as the T.Y. and Margaret Lin Professor in Engineering, 1990.

Received Berkeley Citation, 1991

Elected to the National Academy of Engineering, 1985

Received the Huber

Selected Projects

Field Engineer Ten Mile River Bridge on State Highway 1, 1953

Project Engineer for the Model Analysis and Material Studies of Oroville Dam, 1958-60

Wrote the first automated finite element analysis computer program and analyzed Norfolk Dam, 1960-62

Developed numerical methods and computer programs for the stress analysis of the Minuteman missile and the APOLLO space capsule 1963-65

Developed the original three-dimensional earthquake analysis programs SAP, 1969, ETABS, 1973, SAP80 1980 and SAP2000.

Developed the computer programs SMIS, 1963, and CAL, 1976, for the

<p>of Civil Engineers</p> <p>Member, EERI, Earthquake Engineering Research Institute</p> <p>Member, USCOLD, United States Committee on Large Dams</p> <p>Member, SEAONC, Structural Engineers Association of Northern California</p>	<p>Received the Huber, 1974, and Howard, 1995 awards by ASCE for his contributions to the Structural Engineering Profession.</p> <p>Currently Member of Engineering Criteria Review Board for BCDC</p> <p>Seismic Review Committee for the UC Berkeley Campus</p> <p>Member of the Seismic Instrumentation Advisory Committee for the Golden Gate Bridge.</p> <p>President of the T. Y. Lin Foundation</p>	<p>Computer Assisted Learning of static and earthquake analysis of structural systems. Various versions of these programs have been used worldwide.</p> <p>Consultant on the new Bay Bridge, retrofit of the Richmond-San Rafael and Golden Gate Bridges and many other major projects.</p>
--	---	---

Expanded BIOGRAPHICAL SUMMARY

Edward L. Wilson is a Professor Emeritus of Structural Engineering at the University of California at Berkeley, where he was a faculty member from 1965 to 1991. From 1973 to 1976 he served as Chairman of the Division of Structural Engineering and Structural Mechanics. From 1987 to 1990 he was Vice Chairman of the Department of Civil Engineering. At the present time he is a consultant on the structural analysis of complex structures and is engaged in the development of new methods of analysis and computer programs in the general area of structural engineering. He is currently a member of the Seismic Review Committee for the Berkeley Campus.

At the University he taught courses and conducted research on structural analysis, computer analysis, dynamics and finite element methods. He has published over 180 technical papers and reports. During his 30 years of teaching at the University, 29 doctoral students completed their dissertations under his supervision.

He received his D. Eng. Degree from the University of California in 1963. From 1963 to 1965 he was a senior research engineer at Aerojet General Corporation, Sacramento, California. At Aerojet he developed numerical methods and computer programs for the thermal and stress analysis of the MINUTEMAN missile and the APOLLO space capsule. He has been responsible for the development of several computer programs which are extensively used by professionals in the Civil, Mechanical and Aerospace engineering. The general three-dimensional finite element analysis program SAP and the TABS series of programs for the static and dynamic analysis of three-dimensional building systems are examples of programs initially developed by Professor Wilson.

He was the first to develop computational methods and practical computer programs for the analysis of tall buildings and hydroelectric structures. These special purpose programs include heat transfer analysis and the effects of creep, incremental construction, soil-structure-fluid interaction, and flow in porous media. Since these programs have been extensively adopted by a large number of firms throughout the world he has been involved directly and indirectly as a consultant on a very large number of engineering projects.

In 1985 he was elected to the National Academy of Engineering. He was appointed as the T. Y. and Margaret Lin Professor in Engineering in 1990. He received the Berkeley Citation at the time of his retirement from teaching in 1991 For his contributions to the profession he received the Huber (1974) and the Howard (1995) medals by ASCE. In 1998 he received the Lifetime Achievement Award from the Los Angeles Tall Building Design Council. In 2003 he received Von Neumann Medal from the United States Association of Computational Mechanics for the development of the SAP series of programs. In 2008, he received an Outstanding Contribution to Engineering Award from ASME and he was made an Honorary Member of the Structural Engineering Association of Northern California.

Welcome to Ed Wilson's Web Site

Family, Friends, and Structural Engineering

Work in Progress - Updated on March 30, 2010

ed-wilson1@juno.com



The Crash of a B-17 A report on the 1944 WWII crash of a B-17 where Ed's 20 year old brother George and eight other men were crewmembers

Humorous Stories What Ed Thinks are Interesting Stories

Family Ed and Diane Wilson's Family **Christmas2007**
Halloween2007

Professional Bio What Ed claims to have accomplished during the Last 78 Years

Ed's Book "Static and Dynamic Analysis of Structures"

Free Software "The latest version of the Educational Program CAL"

Early Finite Element Research at Berkeley by Ray Clough and Ed Wilson

The Development of Earthquake Engineering Software at Berkeley
by Ed Wilson - [Slides](#) [Caltrans Slides](#)

Other Earthquake Engineering Links

csiberkeley.com Link to Computers and Structures, Inc.
To obtain SAP2000, ETABS and SAFE

MAP to CSI and San Francisco Bay Area & El Cerrito

American Society of Civil Engineers ASCE

Applied Technology Council ATC

Pacific Earthquake Engineering Research Center, U.C. Berkeley PEER

Earthquake Engineering Research Institute EERI

Structural Engineers Association of California SEAOC

U.S. Geological Survey USGS

Center for Engineering Strong Motion Data USGS

Virtual Earthquake (at Cal State Los Angeles)

CBHS SCIENTIST ALUMNI

BEFORE 2005

CB SCIENCE ALUMNI BEFORE 2005

NAME	CLASS	SPECIALTY	NOTES
Bambery, Raymond J. PhD	60	Physics, Astronomy	JPL, NASA
Barbadillo, Stacy P.	81	Elec	Microchip Technology
Berry, Edwin X. PhD	53	Physics	Climate Expert
Binsfeld, Michelle E.	1	Anthropology	
Buchanan, Paul A.	80	Hydrology	USGS
Cress, James P.	60		
Doctolero, Michael H.	89		
Ecans, Mrs. Frances M.			
Facino, John J. Sr.	54		R. E. Wright Assoc.
Foy, Patrick Joseph	87	Biology	CA Dept. Fish & Game
Gamez, Mrs. Delena E.	87		
Garcia, Ms. Xochella R.	99	Biology	Vertex Pharm.
Golden, Michael P.	56	Biology	Wildlife biologist
Humfeld, Kelli R.	94		USF administrator
Irving, Mrs. Terra M.	95	Agricultural Biology	Agri. Bio. Tech.
Kuhn, Mrs. Amanda RCP	86	Respiratory Practitioner	Mercy Healthcare
Onishi, Marc E.	91	Chemistry	STL, Sacramento
Peter, Timothy J.	79	Geology	Associated Earth Sciences Inc.
Ramirez, Marco A.	97	Chemistry	Campbell Soup
Santolini, Michael J.	93	Biology	Genentech, Inc
Scherer, James R. PhD	49	Chemistry	UC Berkeley Rsch.
Smith, Alan J.	72	Electronics	Cleveland Inst. Electr.

Larry Ito, Ph. D.
Recipient of
Creighton University's
2002 Alumni Achievement Citation



Dr. Ito posing with some of the chemistry faculty. From left: Dr. Juliane Soukup, Dr. Mark Kearley, Dr. Larry Ito, Dr. Bruce Mattson, Dr. Martin Hulce and Dr. Gary Michels

Larry N. Ito received his BS Chemistry from Creighton University in 1984 and his MS in Chemistry (1986) also from Creighton University. He received his PhD Chemistry, University of Minnesota in 1990. Dr. Ito currently works for Dow Chemical Company in Midland, Michigan where he has achieved the company's highest technical/research rank of Dow Fellow. His area of expertise is heterogeneous catalysis and process design. In his ten years at Dow Chemical, he has received over ten major awards from Dow and Michigan Catalysis Society and holds 7 US patents and 15 world patents.

Dr. Ito exemplifies Creighton's Credo with his demonstrated dedication to humanity and the importance of protecting our earth and making it a better place to live for people and all of God's creatures. Dr. Ito has dedicated his professional life to finding new scientific truths that directly improve our world and protect it for future generations. He

personally portrays many Jesuit qualities; he is caring, thoughtful, introspective, humble, and selflessly gives of his time and talents. He has been described as a 'consummate listener.' He personally epitomizes one who respects the intrinsic value of every person and living thing. His professional contributions and faithful pursuit of truth and better ways have enriched the human community and our world. Dr. Ito's chemical processes have changed our world for the better in concrete ways that few, if any, of us can imagine doing. In my opinion, Dr. Larry Ito exemplifies an individual with most noteworthy and distinguished service to the University.

After joining Dow Chemical, Dr. Ito became involved in designing chemical processes that would take chemical waste streams from other Dow commercial processes and convert the waste materials into useful products. His work led to the development of industrial applications that has allowed to Dow to eliminate the use of several existing chemical incinerators while concomitantly reducing potential Greenhouse emission gases significantly. The value to Dow is estimated at over \$100 million annually! Most of these processes carry a weighty environmental importance. As for the effects that Dr. Ito's contributions have on society as a whole, it simply is hard to imagine! Dr. Ito has used his acute mind basic science knowledge mastered first at Creighton University and then the University of Minnesota and has gone on to change the world for the better! On a 1998 Dow evaluation, Jack Kruper (Dow) wrote, "He (Dr. Ito) has accomplished more value creating opportunities for Dow in a few short years than most researchers do in a lifetime." In 1994, Dr. Ito was awarded Dow's Environmental Care Award. These contributions directly protect the environment and impact the quality of life for all Americans and thus nicely exemplifies numerous points of the Creighton Credo.

Larry Ito lives with his wife Kim and his three children (Matthew, Jeffrey, Jacqueline) in Midland, Michigan.



Jet Propulsion Laboratory
California Institute of Technology

+ View the NASA Portal

Search JPL

JPL HOME

EARTH

SOLAR SYSTEM

STARS & GALAXIES

SCIENCE & TECHNOLOGY

Jet Propulsion Laboratory
California Institute of Technology

IMAGES

MULTIMEDIA

NEWS

MISSIONS

PUBLIC SERVICES

KIDS

EDUCATION

ABOUT JPL

PRESS RELEASES

SPOTLIGHT FEATURES

PROFILES

JPL ANNUAL REPORTS

FOR MEDIA PROFESSIONALS

MEDIA CONTACTS

MEDIA VISITS

IMAGES/MULTIMEDIA CONTACT

PRESS KITS

FACT SHEETS

2003 News Releases

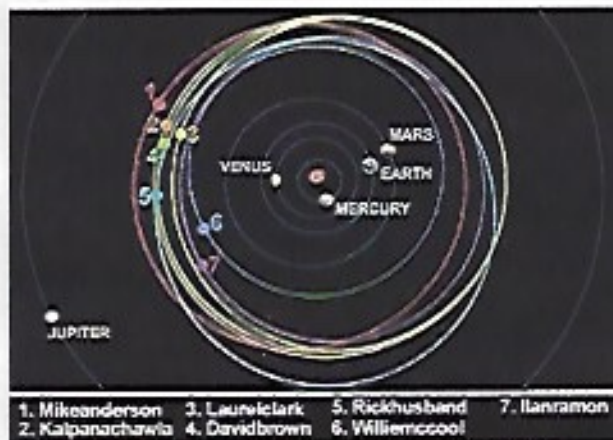
Asteroids Dedicated to Space Shuttle Columbia Crew

August 6, 2003

The final crew of the Space Shuttle Columbia was memorialized in the cosmos as seven asteroids orbiting the sun between Mars and Jupiter were named in their honor today.

The Space Shuttle Columbia crew—Commander Rick Husband; pilot William McCool; Mission Specialists Michael Anderson, Kalpana Chawla, David Brown, Laurel Clark; and Israeli payload specialist Ilan Ramon, will have celestial memorials, easily found from Earth.

The names, proposed by NASA's Jet Propulsion Laboratory, Pasadena, Calif., were recently approved by the International Astronomical Union. The official clearinghouse of asteroid data, the Smithsonian Astrophysical Observatory's Minor Planet Center, released the dedication today.



Graphic representing location of Columbia crew asteroids.

Related Links:

+ Click for larger view



From left to right: David M. Brown, Rick D. Husband, Laurel B. Clark, Kalpana Chawla, Michael P. Anderson, William C. McCool, Ilan Ramon.

Related Links:

+ More information about asteroids dedicated to Columbia crew

The seven asteroids were discovered at the Palomar Observatory near San Diego on the nights of July 19-21, 2001, by former JPL astronomer Eleanor F. Helin, who retired in July 2002. The seven asteroids range in diameter from five to seven kilometers (3.1 to 4.3 miles). The Palomar Observatory is owned and operated by the California Institute of Technology, Pasadena.

"Asteroids have been around for billions of years and will remain for billions more," said Dr. Raymond Bamberg, Principal Investigator of JPL's Near-Earth Asteroid Tracking System. "I like to think that in the years, decades and millennia ahead people will look to the heavens, locate these seven celestial sentinels and remember the sacrifice made by the Columbia astronauts.

The 28th and final flight of Columbia (STS-107) was a 16-day mission dedicated to research in physical, life and space sciences. The seven astronauts aboard Columbia worked 24 hours a day, in two alternating shifts, successfully conducting approximately 80 separate experiments. On February 1, 2003, the Columbia and its crew were lost over the western United States during the spacecraft's re-entry into Earth's atmosphere.

Asteroids are rocky fragments left over from the formation of the solar system about 4.6 billion years ago. Most of the known asteroids orbit the Sun in a belt between Mars and Jupiter. Scientists think there are probably millions of asteroids, ranging in size from less than one kilometer (.62 mile) wide to hundreds of kilometers across.

More than 100,000 asteroids have been detected since the first was discovered back on January 1, 1801. Ceres, the first asteroid discovered, is also the largest at about 933 kilometers (580 miles) in diameter.

The Near-Earth Asteroid Tracking System is managed by JPL for NASA's Office of Space Science, Washington, D.C. JPL is a division of the California Institute of Technology.

Information about JPL's Near-Earth Asteroid Tracking System is available at <http://neat.jpl.nasa.gov>. More information on the newly named asteroids is at <http://www.jpl.nasa.gov/releases/2003/columbia-tribute.cfm>.

For information about NASA on the Internet, visit: <http://www.nasa.gov>.

Contact: D.C. Agle (818) 393-9011
JPL

Donald Savage (202) 358-1547
NASA Headquarters, Washington, D.C.

2003-108

PRIVACY / COPYRIGHT

FAQ

FEEDBACK

SITE MAP



Site Manager: Susan Watanabe
Tony Greicius, Martin
Webmasters: Perez