



Science and Engineering Council
of Santa Barbara, Inc.

TECHNICAL SERVICES DIRECTORY

2015

[Updated April 13, 2015]

SCIENCE AND ENGINEERING COUNCIL

Email: scieng@silcom.com

Website: www.scieng.org

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Founded August 1960
Incorporated August 1966
A Non-Profit Corporation in the
State of California

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SCIENCE AND ENGINEERING COUNCIL OF SANTA BARBARA, INC.

PURPOSE

The *Science and Engineering Council of Santa Barbara, Inc. (SEC)* is a non-profit organization devoted to providing interaction among individuals, companies, and institutions engaged in scientific and engineering activities within the Santa Barbara County area. The **SEC** activities promote public awareness of science and the value of technical enterprises to the community.

ACTIVITIES

- **Luncheon Programs**

Monthly *Luncheon Programs* which provide a forum for presentation of topics of interest, and an opportunity for meeting fellow engineers, scientists, and business professionals.

- **Technical Services Directory**

Technical Services Directory of **SEC** members is posted on the **SEC** website (www.scieng.org).

- **Science Fair**

Monetary awards, certificates and trophies to local *Science Fair* winners in all divisions with presentation by winners at the May **SEC** luncheon meeting.

- **Scholarships**

Sponsorship of *Scholarships* for local college students in the sciences. The scholarships are funded through the Scholarship Foundation of Santa Barbara.

MEMBERSHIP

Membership in the *Science and Engineering Council* is open to qualified organizations and individuals.

INFORMATION

Website: <http://www.scieng.org>

Email: scieng@silcom.com

Contact: Corresponding Secretary or a Board member – see Page 4

OFFICERS; DIRECTORS; COMMITTEE CHAIRS

October 2013 to September 2014

CO-PRESIDENTS

Timothy J. Murphy	805.895.5420	tim.murphy@urs.com
Gary Kravetz	805.898.7850	gary@sbkravetz.com

SECRETARY

Timothy J. Murphy	805.895.5420	tim.murphy@urs.com
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TREASURER AND FINANCE CHAIR

William A. Theeringer	805.680.0993	ici6187@aol.com
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MEMBERSHIP CHAIR

Gary Kravetz	805.898.7850	gary@sbkravetz.com
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OUTREACH CHAIR

George Konstantinow	805.426.9246	george.konstantinow@ieee.org
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PROGRAMS CHAIR

Yvonne DeGraw	805.683.5784	ydegrow@ydegrow.com
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PUBLICITY CHAIR

Robert Lilley, PhD	805.967.9394	Robert.Lilley@cox.net
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SCHOLARSHIP CHAIR

John D. Illgen	805.770.6393	john.illgen@ngc.com
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SCIENCE FAIR CHAIR / FACILITIES CHAIR

Richard L. Schapker	805.961.9933	richs@silcom.com
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WEBSITE CHAIR

Stephen Scopatz	805.690.5234	sscopatz@electro-optical.com
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BOARD MEMBER

Mary E. Howe-Grant, PhD	805.964.5747	mhowegrant@att.net
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MEMBER-AT-LARGE

Miles W. McLennan	805.967.0560	mwmwcl3@cox.net
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CORRESPONDING SECRETARY (Non-Board)

Cheryl Ebner	805.968.1282	scieng@silcom.com
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ORGANIZING COMMITTEE, 1960

Frederick A. Berry	Robert D. Elliott
Eugene Bollay	Raymond E. Kerr, Jr.
William Bollay, PhD	Walter L. Koch

PRESIDENTS, 1960 TO PRESENT

2014-15	Timothy J. Murphy and Gary Kravetz
2013-14	Timothy J. Murphy and Gary Kravetz
2012-13	Timothy J. Murphy and Gary Kravetz
2011-12	Timothy J. Murphy and Gary Kravetz
2010-11	Timothy J. Murphy and Gary Kravetz
2009-10	Timothy J. Murphy and Gary Kravetz
2008-09	Timothy J. Murphy and Gary Kravetz
2007-08	Timothy J. Murphy and Gary Kravetz
2006-07	Timothy J. Murphy and Gary Kravetz
2005-06	Timothy J. Murphy
2004-05	Timothy J. Murphy
2003-04	Timothy J. Murphy
2002-03	Bruce W. McRoy and Wayne Rothermich
2001-02	Mary E. Howe-Grant, PhD and Bruce W. McRoy
2000-01	Mary E. Howe-Grant, PhD and Bruce W. McRoy
1999-00	Betsy Reese, PhD
1998-99	Richard L. Schapker
1997-98	John D. Illgen
1996-97	Robert B. Block
1995-96	Charles R. Greene, Jr., PhD
1994-95	Michael J. Masterson
1993-94	Shirley A. Lemmex
1992-93	Jerome Wiedmann
1991-92	Norman C. Rigby
1990-91	Barbara Tzur-Jenks
1989-90	Robert G. Hansen
1988-89	Aram M. Mika
1987-88	William McNamara, PhD
1986-87	Kenneth Kihlstrom, PhD
1985-86	Ralph A. Olsen
1984-85	Sharon L. Campbell
1983-84	Lorne G. Everett, PhD
1982-83	Howard W. Jackson
1981-82	Al W. Mehrbrodt
1980-81	Karl F. Marazita
1979-80	Lowell L. Baskins
1978-79	Erwin H. Straehley
1977-78	Michael A. Marshall
1976-77	Walter Hausz
1975-76	John G. Skalnik, PhD
1974-75	Ronald S. Greenslade
1973-74	Albert D. Paul
1972-73	Gordon N. Steele
1971-72	Robert C. Tetherow
1970-71	John E. Myers, PhD
1969-70	Robert W. Bogle, PhD
1968-69	Martin C. Reder
1967-68	Sidney R. Frank
1966-67	T. Arthur Kvaas
1965-66	T. Arthur Kvaas
1964-65	Osmund T. Fundingsland
1963-64	Harold R. Frank
1962-63	Hamilton O. Hauck
1961-62	William Bollay, PhD
1960-61	Sanford C. Sigoloff

DIRECTORS, 1960 TO PRESENT MEMBER AFFILIATION(S)

H. Duane Adams, PhD	Individual (strategic planning, technical analysis)
Norman C. Anderson	Infrared Industries, Inc.
Custer C. Baum, PhD	The Te Company
Lowell L. Baskins	Infrared Industries, Inc.
Frederick A. Berry	Aerometric Research/North American Weather Consultants
Henry S. Bertram	Applied Magnetics Corporation
Harold N. Beveridge	Defense Research Corporation
Edward E. Bickel	Infrared Industries, Inc.
Hans P. Birchmeier	Burroughs Corporation
Karl R. Blasius, PhD	Raytheon Company; Individual
Robert B. Block	Individual (lawyer)
Donald E. Bode, PhD	Santa Barbara Research Center
Robert W. Bogle, PhD	General Research Corp.; Astro Research Corporation
Eugene Bollay	E. Bollay Associates, Inc.
William Bollay, PhD	Individual (consultant–aerospace)
Frank J. Bourbeau	Enerpro, Incorporated
Harry W. Brelsford	Individual (patent attorney)
George A. Campbell	Delco Electronics
Sharon L. Campbell	Delco Systems Operations
Robert F. Carlson	Channel Industries, Inc.
Linda Chandos	EG&G Energy Measurements, Inc.
Teri Conrad	Delco Systems Operations
James M. Cunningham	Schafer Electronics; Individual (consulting engineer)
Scott C. Daubin, PhD	A C Electronics–Defense Research Laboratories
Edwin A. Dawson	Individual (contracts consultant)
Yvonne DeGraw	Individual (contract technical writer)
Myfanwy C. DeVoe	Individual (economic development)
Lloyd T. DeVore, PhD	Hoffman Science Center
Michael S. Dockendorf	Goleta National Bank
Joseph D. Eisler	Individual (consulting geophysicist)
Robert D. Elliott	Aerometric Research/North American Weather Consultants
John A. Ernest, PhD	UCSB–Department of Mathematics
Lorne G. Everett, PhD	Kaman Sciences Corporation
James L. Farnsworth	Santa Barbara Research Corporation
Jill Feldman	Strategic Development Associates
Richard M. Fisher	Howden Fluid Systems
Harold R. Frank	Applied Magnetics Corporation
Sidney R. Frank	Aerometric Research/North American Weather Consultants
Osmund T. Fundingsland	EG&G, Inc.; Applied Magnetics Corporation
John E. Gorrell, MD	Individual (medical lecturer/writer)
Charles R. Greene, Jr., PhD	Greeneridge Sciences, Inc.; Individual
Ronald S. Greenslade	Raytheon Company
J. George Gregory	Individual (industrial marketing)
Paul H. Hall	Sloan Technology Corporation
Judith F. Hammes	UCSB–College of Engineering
Robert G. Hansen	R.G. Hansen & Associates
Hamilton O. Hauck	Infrared Industries, Inc.
Walter Hausz	General Electric Company–TEMPO
John M. Hedgepeth, PhD	Astro Aerospace Corporation
Michael J. Heller	Delco Systems; Litton Guidance & Control
Gregg K. Hobbs, PhD	Individual (consulting engineering)
William Holzer, PhD	Santa Barbara Research Center
Mary E. Howe-Grant, PhD	Individual (consultant–science/technology/education)
Elizabeth E. Howell	Telos Consulting Services
Robert F. Hummer	Santa Barbara Research Center
Gordon S. Humphrey	Raytheon Company

John D. Illgen	Illgen Simulation Technologies, Inc. (ISTI); Northrop Grumman Simulation Technologies Corp.; Individual
Kirk S. Irwin	Tracor Aviation
John Ise, Jr., PhD	General Research Corporation
Howard W. Jackson	EG&G, Inc.
John Jamieson	Sloan Technology Corporation
Donald A Jessup	EG&G Energy Measurements, Inc.
Christopher E. Jones	UCSB–College of Engineering
Raymond E. Kerr, Jr.	Aerometric Research/North American Weather Consultants
Kenneth Kihlstrom, PhD	Westmont College–Physics Department
Bruce H. King, PhD	Mission Research Corporation; ATK Mission Research
Walter L. Koch	A C Electronics–Defense Research Laboratories
George Konstantinow	Individual
Jack Kotowski	Goleta Manufacturing Company; Magellan’s
Gary Kravetz	Santa Barbara Staffing/NCC Executive Search; Individual
T. Arthur Kvaas	General Electric Company–TEMPO; ADCON Corp.
Harold A. Lamonds, PhD	EG&G, Inc.
Thomas A. LaRovere	B-J Systems; Individual (product development)
Karen T. Lawton	Individual (computer consulting/lessons)
Betsy K. (Reese) Lazarine, PhD	Individual (research administrator)
Shirley A. Lemmex	R.G. Hansen & Associates; Individual (education)
Malcolm A. Lewis	Acroamatics, Inc.
Robert W. Lilley, PhD	Illgen Simulation Technologies, Inc.; Individual (consultant)
Harold Lipchik	American Machine and Foundry Co.
Lawrence Long	Individual (consultant)
Guillermo L. Lopez	Santa Barbara High School District
Oscar Lowenschuss	Raytheon Company
John W. Lynch	Individual (video conferencing)
Bruce W. Malcolm	Electro Optical Industries, Inc.
Karl F. Marazita	Delco Electronics; Rolair Systems, Inc.
Marvin Marcus	UCSB–Research Department
Michael A. Marshall	IBM Corp.; Individual (realty; investment)
Michael J. Masterson	Michael Masterson Computer Services
George L. Matthaei, PhD	UCSB–College of Engineering
J. Byron McCormick	Delco Systems Operations
Miles W. McLennan	Individual (underwater acoustics)
Robert J. McMillin	Delco Electronics
William McNamara, PhD	Kaman Sciences Corporation
Bruce W. McRoy	Individual (attorney-technology and industrial companies)
Al W. Mehrbrodt	Individual (management recruiters)
James L. Merz, PhD	UCSB–Department of Electrical and Computer Engineering
Aram M. Mika	Santa Barbara Research Center
Roger A. Moe	The Te Company
Michael R. Montemorra	Applied Magnetics Corporation
Jane Morrow-Jones	Toyon Research Corporation
John A. Moseley	Moseley Associates Incorporated
Timothy J. Murphy	URS Corporation; Entrix, Inc.; Cardno ENTRIX
Stuart S. Murray, Adm.-USN	Individual (ASW/weapons systems)
John E. Myers, PhD	UCSB–College of Engineering
Ram Natesh, PhD	Individual (material research)
Wayne B. .Norris	Individual (computer systems)
John K. Northrop	Individual (aeronautical/mechanical engineering)
Henry W. Offen, PhD	UCSB–Research Department
Ralph A. Olsen	Western Robotics
P. Frank Ordnung, DEng	UCSB–College of Engineering
Ron Parsons	Raytheon Company
John Patterson	Santa Barbara Remote Sensing–SBRC
Albert D. Paul	Santa Barbara Research Center
Charles Perkins, PhD	General Research Corporation
David S. Potter, PhD	GM Defense Research Laboratories

William A. Radasky, PhD	Metatech Corporation
Neal C. Rasmussen	Neal Feay Company
Richard C. Raymond, PhD	General Electric Company–TEMPO
Ralph F. Redemske	Servomechanisms, Incorporated
Martin C. Reder	Sigmatron, Inc.
Richard A. Reichel	Individual (electronic sorting machinery)
Norman C. Rigby	Raytheon Company
Kevin J. Riley, PhD	Santa Barbara Research Center
William F.J. Riordan	Individual (capabilities development)
James B. Robertson, PhD	UCSB–Department of Mathematics
Leo J. Robidoux	Individual (consulting engineer)
E. Wayne Rothermich	Individual (electronic design consultant)
Thomas W. Russell	Applied Magnetics Corporation
Douglas R. Schafer	Delco Systems Operations
Richard L. Schapker	Individual (author, digital education website)
Stephen Scopatz	Individual (engineer/physicist); Channel Technologies Group/Electro-Optical Industries, Inc.
Lloyd H. Scott	Santa Barbara Research Center
David L. Sever	EG&G Energy Measurements, Inc.
Sara L. Sherman	Individual (software/hardware development)
Sanford C. Sigoloff	EG&G, Inc.
John G. Skalnik, PhD	UCSB–College of Engineering
Gordon N. Steele	Sigmatron, Inc.
Harold V. Stewart	EG&G, Inc.
Erwin H. Straehley	Individual (product development/management)
David A. Sutton	Information Magnetics Corporation
Mark Sylvester	Alias wavefront
Robert M. Talley, PhD	Santa Barbara Research Center
Robert C. Tetherow	Applied Magnetics Corporation
William A. Theeringer	Individual
Anne Thomas	Illgen Simulation Technologies, Inc. (ISTI)
David T. Thomas, PhD	Raytheon Company
J. Dwaine Thwing	Moseley Associates Incorporated
Hung L. Tran	Delco Systems Operations
Kaye D. Treese, PhD	Santa Barbara Research Center
Nivaldo J. Tro, PhD	Westmont College–Chemistry Department
Barbara Tzur-Jenks	Brylen Technologies, Inc.
Al Wade	Santa Barbara Research Center
Robert O. Wageneck	Santa Barbara Research Center
Yukina I. Warner	UCSB–College of Engineering
Robert A. Watkins, PhD	Raytheon Company
Louis A. Watts	Science Applications International Corporation
Jerome Wiedmann	Digital Instruments, Inc.
Wynette K. Winkler	Individual (business management)
David Zheng	Enerpro, Incorporated

CORPORATE MEMBERS

AT&T GOVERNMENT SOLUTIONS INC. (Santa Barbara)

An AT&T Company

5383 Hollister Avenue, Suite 200, Santa Barbara 93111-2304

805.699.3200

P.O. Box 6770, Santa Barbara 93160-6770

MAJOR ACTIVITIES

Provide technical solutions to Government and Department of Defense clients.

KEY PERSONNEL

Anthony P. Vitello, PhD** – Director, Analysis and Simulations

John West, PhD**

Jim Sasseen, PhD*

Dennis W. Cooper* – Manager, Analysis Department, Space Systems Group

Number of Employees: 23

Scientific and Engineering Personnel: 20

Building Space: 13,500 square feet

BRUKER NANO, INC.

112 Robin Hill Road, Santa Barbara 93117-7123

805.967.2700

Website: www.bruker-axs.com/

Fax: 805.967.7717

MAJOR ACTIVITIES

Bruker is the market leader in performance, innovation, and quality in the field of scanning probe microscopes for research and industrial applications.

KEY PERSONNEL

Charles Meyer** – Principal Engineer

Number of Employees: 200

Scientific and Engineering Personnel: 50

Building Space: 100,000 square feet

BRYLEN TECHNOLOGIES, INC.

ISO 9001 CERTIFIED – ISO 17015 ACCREDITED
275 South Orange Avenue, #A, Santa Barbara 93117
Email: barbara.tzur@brylen.com
Website: www.brylen.com/

805.692.9300
Fax: 805.692.1966

MAJOR ACTIVITIES

- Measurement Standards Laboratory
- Calibrates and Repairs Measuring Equipment
- Performs Precision Inspection
- Certifies Cleanroom Environments
- Consults on ISO9001, ISO/IEC 17025:2000 and ANSI/NCSL Z540.3, and International Regulatory Compliance

KEY PERSONNEL

Barbara Tzur** – President
Richard Jones, Sr. – Laboratory Supervisor
Silivario Torres – Quality Engineer

Number of Employees: 9
Scientific and Engineering Personnel: 4
Building Space: 2,000 square feet

**CHANNEL TECHNOLOGIES GROUP
ELECTRO-OPTICAL INDUSTRIES (EOI) [subsidiary]**

859 Ward Drive, Santa Barbara 93111
Email: sscopatz@electro-optical.com
Website: www.channeltechgroup.com
www.electro-optical.com

805.967.6701
Fax: 805.967.8590

MAJOR ACTIVITIES

Manufacturing customized solutions using piezoelectric ceramics, transducers and navigation systems.

KEY PERSONNEL

Stephen Scopatz** – President, EOI
Mark Shaw** – Vice President Engineering
Michael Haun, PhD* – Lead Engineer
Enders Kuntsal* – Director, Research and Development
John Mathers – Valve Stream Manager
Brad Altavilla – Engineering Manager

Number of Employees: 260
Scientific and Engineering Personnel: 50
Building Space: 80,000 square feet

COMMUNITY WEST BANK

445 Pine Avenue, Goleta 93117 (Corporate)
5827 Hollister Avenue, Goleta 93117 (Branch)
P.O. Box 249, Goleta 93116-0249
Email: info@goleta.com
Website: www.communitywestbank.com

805.692.5821
Fax: 805.692.8902

A Community West Bancshares Company

MAJOR ACTIVITIES

Financial, SBA

KEY PERSONNEL

Martin Plourd** – President / CEO

Number of Employees: 145
Building Space: 20,700 square feet

ELECTRO-OPTICAL INDUSTRIES (EOI) (see CHANNEL TECHNOLOGIES GROUP)

ENERPRO, INCORPORATED

5780 Thornwood Drive, Goleta 93117-3802
Email: Frankb@enerpro-inc.com
Website: www.enerpro-inc.com/

805.683.2114
Fax: 805.964.0798

MAJOR ACTIVITIES

Design, development and manufacture of:

- High power thyristor assemblies for power supplies and motor controls
- Thyristor trigger and regulator circuit boards
- Medium voltage solid-state switch
- Power factor capacitor switches
- Battery chargers for electric busses and locomotives
- Diesel engine cranking controls
- Wind Generator Controls
- Water Treatment Power Supplies

KEY PERSONNEL

Frank J. Bourbeau** – President
Thomas F. Bourbeau – Vice President
Robert Thies* – Operations Manager
Saul Rivera** – Manufacturing Manager
James T. Matherly – Design Engineer
Sandhya Jetti – Research and Development Engineer
Clint Gracia – Applications / Test Supervisor
Janice McClore* – Quality Assurance Manager
Gary Coulson – Production Manager
Kathy Mecono – Accountant, Human Resources Manager

Number of Employees: 30
Scientific and Engineering Personnel: 5
Building Space: 8,600 square feet

IEEE CENTRAL COAST SECTION

Santa Barbara

Email: IEEECentralCoast@gmail.com

MAJOR ACTIVITIES

The IEEE is the world's largest global professional engineering society, serving professional and academic engineering for over 125 years. The IEEE Central Coast Section, itself in existence for over 50 years, serves the engineering communities of Santa Barbara and San Luis Obispo Counties with over 900 professional members. Once the special domain of radio and subsequently electronics engineering, the IEEE now supports all branches of engineering and engineering education in Sections throughout the US, Europe, and Asia. The Central Coast Section focuses on professional IEEE Society activities in Computing, Power Engineering, Control Systems, and Engineering in Medicine and Biology.

KEY PERSONNEL

George Konstantinow, PhD

george.konstantinow@ieee.org

Number of Members: 900+

METATECH CORPORATION

358 South Fairview Avenue, Suite E, Goleta 93117

805.683.5681

Website: www.metatechcorp.com/

Fax: 805.683.3023

MAJOR ACTIVITIES

Metatech provides engineering services for the analysis and protection of electronic systems from electromagnetic interference (EMI). These services include the use of complex computer models to evaluate interference problems.

KEY PERSONNEL

William A. Radasky, PhD** – President

Edward Savage, PhD* – Senior Scientist

James L. Gilbert, PhD* – Chief Scientist

Number of Employees: 6 (California)

Scientific and Engineering Personnel: 4 (California)

Building Space: 3,700 square feet

MINOT ENTERPRISES, INC.

115 Via Lee, Santa Barbara 93111-1900
Email: jafishpaw@minotinc.com
Website: www.minotinc.com

805.683.5368
Fax: 805.683.1401

MAJOR ACTIVITIES

Systems Integrator – Factory Automation

KEY PERSONNEL

John Fishpaw** – President
Mike Van Hecke* – Vice President
Rob Opdahl* – Vice President

Number of Employees: 9
Scientific and Engineering Personnel: 7

SANTA BARBARA WEB HOSTING, INC.

P.O. Box 6913, Santa Barbara 93160-6913
Email: support@sbwh.com
Website: www.sbwh.com

805.692.6900

MAJOR ACTIVITIES

Web Hosting, Exchange Server Hosting, SQL server, serving Santa Barbara and the world since 1996

KEY PERSONNEL

David Straede – President

SPECIAL TECHNOLOGIES LABORATORY

5520 Ekwill Street, Suite B, Santa Barbara 93111
Email: martinmg@nv.doe.gov

805.681.2404

MAJOR ACTIVITIES

Applied Science and Engineering R&D

KEY PERSONNEL

Michael G. Martinez** – Director
Rory McCarthy** – Senior Manager
Chelsea Richey* – Assistant to Director

Number of Employees: 120
Scientific and Engineering Personnel: 80
Building Space: 84,000 square feet

TEXAS INSTRUMENTS

6755 Hollister Avenue, Suite 250 Goleta 93117
Email: dfriedland@ti.com
Website: www.ti.com

805.562.5122
Fax: 805.968.9770

MAJOR ACTIVITIES

Texas Instruments Santa Barbara develops System Software, including real time Operating Systems, for TI's Digital Signal Processors.

KEY PERSONNEL

David Friedland** – Engineering Manager
Rachel Klein* – Administrative Assistant
Mark Grosen, PhD – Engineering Manager

Number of Employees: 30
Scientific and Engineering Personnel: 29
Building Space: ~11,600 square feet

TOYON RESEARCH CORPORATION

6800 Cortona Drive, Goleta 93117-3021
Email: toyoninfo@toyon.com
Website: www.toyon.com

805.968.6787
Fax: 805.685.8089

MAJOR ACTIVITIES

Toyon Research Corporation provides its commercial and military customers with innovative and responsive solutions and state-of-the-art technical recommendations to vexing problems involving advanced sensor technologies and weapons systems.

KEY PERSONNEL

Charles T. Nardo, PhD** – President
Michael L. VanBlaricum, PhD – Director, Chief Scientist
Joel R. Garbarino – Chairman of the Board
Michael P. Grace* – Senior Vice President,
Director of RF and Antenna Systems Team
Paul A. Castleberg, PhD* – Vice President, Director of C41SR Team
Kevin J. Sullivan – Senior Vice President, Director of ISR Algorithms Team
David S. Wright – Vice President, Director of Homeland Security Team
Glenn F. VanBlaricum, Jr., PhD – Director, Chief Scientist

Number of Employees: 115
Scientific and Engineering Personnel: 98
Building Space: 40,000 square feet

UNIVERSITY OF CALIFORNIA COLLEGE OF ENGINEERING

Office of the Dean

Harold Frank Hall, Room 1038

Santa Barbara 93106-5130

Website: www.engineering.ucsb.edu

805.893.4802

Fax: 805.893.8124

MAJOR ACTIVITIES

Research efforts at the College of Engineering continue to expand, especially in the areas of energy efficiency, optoelectronics and photonics, materials, bioengineering and biotechnology, sustainable chemical processing, cybersecurity, data mining, and network science.

Institute for Energy Efficiency (IEE), *Dr. David Auston, Executive Director; Professor John Bowers, Director*. IEE is an interdisciplinary research institute dedicated to the development of cutting-edge science and technologies that support an efficient and sustainable energy future. The Institute's research activities leverage the considerable expertise of UC Santa Barbara's highly acclaimed faculty, scientists, engineers and researchers. By fostering collaborations, sponsoring research, and expediting the commercialization of new technologies, the Institute targets critical energy issues that hold the promise for critical advances across crucial industries and technologies. Additionally, the Institute conducts a wide variety of [programs and initiatives](#) outside of its core research focus and is a key driver of significant advances in energy efficiency.

- **Center for Energy Efficient Materials (CEEM)**, *Dr. David Auston, Executive Director; Professor John Bowers, Director*. An Energy Frontier Research Center funded by the Office of Basic Energy Sciences of the US Department of Energy, CEEM is a cross-disciplinary multi-institution research program directed at critical energy challenges in three key focus areas of fundamental science and engineering: photovoltaics, thermoelectrics, and solid-state lighting. Innovative materials and novel devices for sustainable energy efficient applications are unifying themes. A highly collaborative research enterprise, CEEM engages participants from five institutions: the University of California Santa Barbara (the lead institution), the National Renewable Energy Laboratory, the Los Alamos National Laboratory, UC Santa Cruz, and Harvard University. A corresponding education program provides a rich learning experience for undergraduate and graduate students.

Engineering and the Sciences Corporate Affiliates Programs (CAP), *Dr. Leslie Edwards, Director*. Collaborating with top engineers and scientists provides a catalyst for new business opportunities. The Corporate Affiliates Program offers a portal for industry partners to explore prospective research collaborations and to augment internal research capabilities, investigate novel technologies, utilize world-class facilities and equipment, and to recruit top students. Corporate Affiliate partners also play a strategic role in advising the Deans of Engineering and the Sciences about the changing needs and challenges of industry, and provide insights into corporate relations/networking, graduate employability, and business development opportunities.

Technology Management Program (TMP), Dr. Bob York, Chair. The Technology Management Program (TMP) at UC Santa Barbara provides driven, innovative, and entrepreneurial students with a solid foundation in business principles and professional skills vital to their success after graduation. By welcoming students from all majors on campus, TMP adds vitality and diversity to its team-oriented and project-based curriculum. Students work under the guidance of dedicated faculty, practicing professionals, and experienced mentors. They are introduced to state-of-the-art business methods, strategies for successful technology commercialization, new venture creation, and best practices for fostering innovation. In 2015 TMP will offer an intensive professional master's degree program—the Master of Technology Management, the first degree of its kind at UC Santa Barbara— which is intended for exceptional students with engineering, science, mathematics, or quantitative social science backgrounds who have demonstrated the potential for leadership. TMP currently offers an undergraduate Technology Entrepreneurship Professional Certificate and a Graduate Certificate in Management Practice.

TMP also operates a number of co-curricular activities, including UC Santa Barbara's New Venture Competition, the nationally recognized TMP Lecture Series, professional development seminars, networking events, and career fairs in order to encourage personal development, technical innovation, and entrepreneurship.

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The College of Engineering offers bachelor of science degrees in chemical engineering, computer engineering, computer science, electrical engineering and mechanical engineering. Advanced degrees (MS and PhD) are offered in chemical engineering, computer science, electrical and computer engineering, materials and mechanical engineering. Also offered are several five-year BS/MS programs within the College of Engineering.

#### KEY PERSONNEL

Rod Alferness, PhD\*\* – Dean, College of Engineering  
Glenn Beltz, PhD – Associate Dean for Undergraduate Studies  
Frank Doyle, PhD – Associate Dean for Research  
Ambuj Singh, PhD – Associate Dean for Academic Personnel  
Subhash Suri, PhD – Chair and Professor of Computer Science  
Fred Chong, PhD – Director of Computer Engineering Program  
Frank Doyle, PhD – Chair and Professor of Chemical Engineering  
João Hespanha, PhD – Chair and Professor of Electrical and Computer Engineering  
Tresa Pollock, PhD – Chair and Professor of Materials  
Francesco Bullo, PhD – Chair and Professor of Mechanical Engineering  
Bob York, PhD – Chair of the Technology Management Program and Professor of Electrical and Computer Engineering

Number of Employees: 248  
Scientific and Engineering Personnel:  
327 faculty, lecturers, postdocs, researchers)  
Building Space: 286,886 square feet



**UNIVERSITY OF CALIFORNIA  
DIVISION OF MATHEMATICAL, LIFE AND PHYSICAL SCIENCES  
(MLPS)  
COLLEGE OF LETTERS AND SCIENCE**

Mail Code 2080, Santa Barbara 93106-2080

Email: [mlpsdean@Ltsc.ucsb.edu](mailto:mlpsdean@Ltsc.ucsb.edu)

Website: [www.science.ucsb.edu](http://www.science.ucsb.edu)

805.893.4602

Fax: 805.893.2441

MAJOR ACTIVITIES

Mission Statement: Research and instruction is the core of our mission. Our goal is to educate students for leadership and create solutions that affect the real world, discovering and applying innovation to improve the quality of life for everyone, with special focus on health and the environment.

The Division has great intellectual and capital resources, and vast talents within the Sciences. We have internationally renowned faculty, including those who are winners of the Nobel Prize, the National Medal of Science, the NSF CAREER/Young Investigators/Director's award, the Plous award, and Guggenheim Fellowships. Many of our faculty are members of noted academies, such as the National Academy of Sciences and the American Academy of Arts and Sciences. Part of our continued and rising success is our unique culture. It blends an interdisciplinary approach that facilitates the creative application of the sciences to a wide range of disciplines and an entrepreneurial spirit that promotes the application of great ideas to the real world.

The Division's Academic Departments and Programs are:

- Bio-Molecular Science and Engineering
- Chemistry and Biochemistry
- Earth Sciences (formerly Geological Sciences)
- Ecology, Evolution and Marine Biology
- Environmental Studies
- Geography
- Marine Science Graduate Program
- Mathematics
- Molecular, Cellular and Developmental Biology
- Physics
- Psychological and Brain Sciences
- Speech and Hearing Sciences
- Statistics and Applied Probability

KEY PERSONNEL

Pierre Wiltzius, PhD\*\* – Dean

Rick Church\* – Associate Dean

Jan Adelson\*\* – Assistant to the Dean of Science

Scientific Personnel: 280

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MAJOR ACTIVITIES

The Kavli Institute for Theoretical Physics is an institute engaged in fundamental research, largely funded by the NSF, but also by a variety of other Federal sources as well as private foundations. The research activities include condensed matter, high energy physics, theoretical biology, and astrophysics. The Institute conducts as many as 10 long-term programs (3-6 months) per year and numerous conferences and workshops (1-3 week). Scientists from all over the world gather to exchange information and ideas. The total number of visiting scientists at one time is about 60. The products consist of scientific communications in journals and conference proceedings.

KEY PERSONNEL

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As President and co-founder of Latitude 34 Technologies I am responsible for strategic planning, development and quality control. I am a hands-on manager who ensures the success of every job by maintaining close contact with clients and overseeing the implementation of IT maintenance systems and support for clients. I am proficient in network infrastructure and certifications include Cisco Certified Network Associate (CCNA), A+, Network+ and I-net+. Latitude 34 Technologies is your one-stop shop for all your technology needs and services include:

- On-Call or Remote Technical Support for Mac or PC
- Consultation on Equipment Purchases
- Strategic IT Planning
- Network and Server Set-Up and Maintenance
- Security Solutions
- Mobile Messaging Solutions
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Clients have included Alcoa, America Online, Cisco, Digital Instruments/Veeco, Occam, Sapiens, Sputtered Films, Texas Instruments, and Wyatt Technology.

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## LONG TERM MEMBERS

### 50+ Years

AT&T Government Solution  
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Robert M. Talley, PhD

### 45+ Years

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### 40+ Years

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### 35+ Years

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