



Science and Engineering Council
of Santa Barbara, Inc.

TECHNICAL SERVICES DIRECTORY

2012

[Updated 25 January 2012]

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 2011 to September 2012

CO-PRESIDENTS

Timothy J. Murphy	805.963.0480	timothy.murphy@cardno.com
Gary Kravetz	805.898.7850	gary@sbkravetz.com

SECRETARY

Miles W. McLennan	805.967.0560	mwmcl3@cox.net
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TREASURER AND FINANCE CHAIR

Wynette Winkler	805.682.2720	wynette.winkler@pobox.com
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MEMBERSHIP CHAIR

Gary Kravetz		gary@sbkravetz.com
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OUTREACH CHAIR

George Konstantinow	805.426.9246	george.konstantinow@ieee.org
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PROGRAMS CO-CHAIRS

Yvonne DeGraw	805.683.5784	ydegrow@ydegrow.com
Jill Feldman	805.695.8006	jfeldman@sdaconsulting.net

PUBLICITY CHAIR

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

John D. Illgen	805.692.8001,-8006	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

Charles R. Greene, PhD	805.967.7720	cgreene@greeneridge.com
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BOARD MEMBER

Mary E. Howe-Grant, PhD	805.964.5747	mhowegrant@worldnet.att.net
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BOARD MEMBER

Bruce W. McRoy	805.966.2440	bmcreoy@rppmnh.com
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CORRESPONDING SECRETARY

Barbara E. Keaney	805.566.0598	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

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 (engineering, business and recruiting consultant)
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 teleconferencing)
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. Matthaedi, 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)
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. Strahley	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
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

ASTRO AEROSPACE

6384 Via Real, Carpinteria 93013-2920
Website: www.Astro-Aerospace.com

805.684.6641
Fax: 805.684.3372

Subsidiary of Northrop Grumman

MAJOR ACTIVITIES

Manufacturer of deployable lightweight structures for space applications; space antennas; instrument booms; solar array deployers and space station structures.

KEY PERSONNEL

John A. Alvarez* – Director, Engineering
Geoffrey Marks* – Chief Engineer
Peter Vilkas* – Director, Business Management
Edward Keay* – Director, Marketing

Number of Employees: 68
Scientific and Engineering Personnel: 40
Building Space: 50,000 square feet

ATK SPACE SYSTEMS-GOLETA

60 Pine Avenue, Goleta 93117-3831
Website: www.atk.com

805.685.2262
Fax: 805.685.1369

MAJOR ACTIVITIES

ATK Space Systems-Goleta, formerly Able Engineering, is a subsidiary of Alliant Techsystems (ATK) and is a leading provider of deployable structures, solar arrays, and special-purpose mechanisms for space applications. This location also designs, builds, and manufactures antennas and radomes for radar and communications.

KEY PERSONNEL

David Messner* – General Manager
Mike Eskenazi* – Engineering Director
Gary Heinemann* – Director of Programs
Earl Beers* – Chief Engineer, Antennas

Number of Employees: 160
Scientific and Engineering Personnel: 60
Building Space: 70,000 square feet

AT&T GOVERNMENT SOLUTIONS

An AT&T Company

5383 Hollister Avenue, Suite 200, Santa Barbara 93111-2304
P.O. Box 6770, Santa Barbara 93160-6770

805.964.7724
Fax: 805.967.7094

MAJOR ACTIVITIES

Simulation and analysis of high-tech systems and concepts. Emphasis on systems and mission analysis, cost and risk assessment. Provides innovative, high-quality, information and technology-based solutions to military, civil and commercial clients internationally. Complex information systems, advanced technology development, training, manufacturing technology and simulation are expanding areas in defense, while the commercial focus is on computer software, interactive multi-media training, materials testing products and services, library systems, security products and support.

KEY PERSONNEL

Philip M. Pazich, PhD* – Manager, Space and Technology Program
Anthony P. Vitello, PhD* – Director, Analysis and Simulations
Dennis Cooper* – Manager, Analysis Department

Number of Employees: 34
Scientific and Engineering Personnel: 22
Building Space: 24,000 square feet

BENGAL ENGINEERING INC.

250 Big Sur Drive, Goleta 93117

805.563.0788

Email: Scott@BengalEngineering.com

Md@BengalEngineering.com

Website: www.BengalEngineering.com

MAJOR ACTIVITIES

Civil, Structural, Hydraulic and Transportation Engineers

KEY PERSONNEL

Md. Wahiduzzaman* – Principal
Scott Onishuk* – Principal

Number of Employees: 9

BRUKER

112 Robin Hill Road, Santa Barbara 93117-7123

805.967.2700

Website: www.brucker-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
Samuel Yarbrow – Quality Engineer

Number of Employees: 6
Scientific and Engineering Personnel: 4
Building Space: 2,000 square feet

Cardno ENTRIX

201 North Calle Cesar Chavez, Suite 203
Santa Barbara 93103
Email: timothy.murphy.cardno.com
Website: www.cardno.com

Direct: 805.963.0480
Main: 805.962.7679
Fax: 805.963.0412
Cell: 805.895-5420

MAJOR ACTIVITIES

Environmental consulting services; water resources; energy infrastructure planning and permitting; natural resource planning; soil and water quality and remediation.

KEY PERSONNEL

Timothy J. Murphy, AICP* – Senior Consultant, Environmental Management
Dan Tormey – Technical Director
Laura Riege – Senior Biologist, Restoration Ecologist
Chip Blankenhorn – Senior Engineer

Number of Employees: 35 in Santa Barbara/Los Angeles; 3,500 firm-wide
Scientific and Engineering Personnel: 30 in Santa Barbara/Los Angeles
Building Space: 40,000 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

Edward Mylett* – President / CEO

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

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
- Wind Generator Controls
- Water Treatment Power Supplies

KEY PERSONNEL

Frank J. Bourbeau* – President
Thomas F. Bourbeau – Vice President
Robert Thies* – Operations Manager
Saul Rivera* – Engineering Manager
James T. Matherly – Design Engineer
Konrad Ancheta – Applications / Test Supervisor
Janice McClore* – Quality Assurance Manager
Gary Coulson – Production Manager
Adaya Smootha – Accountant
Ariana Garcia – Human Resources Manager

Number of Employees: 26
Scientific and Engineering Personnel: 4
Building Space: 8,600 square feet

GAZOS CREEK, INC.

579 Bluebird Glen Road, Buellton 93427
Email: sglasgow@gazos.com
Website: www.gazos.com

805.693.1780
Fax: 805.456.0444

MAJOR ACTIVITIES

Network engineering, green data centers.

KEY PERSONNEL

Stacey Glasgow* – Vice President Operations
Steve Kiss* – CEO

Number of Employees: 8
Scientific and Engineering Personnel: 5
Building Space: 4,000 square feet

GREENERIDGE SCIENCES, INC.

6160-C Wallace Becknell Road, Santa Barbara 93117
Email: cgreene@greeneridge.com

805.967.7720
Fax: 805.967.7720

MAJOR ACTIVITIES

Perform underwater acoustics research, field studies and systems engineering. Support marine biologists studying animal behavior under the influence of sounds, especially sounds from industrial and government activities. Develop and provide systems of hardware and software for underwater data acquisition, analysis and interpretation, including autonomous sound recording systems and radio-linked buoy systems (moored sonobuoys).

KEY PERSONNEL

Charles R. Greene, Jr., PhD* – Principal
William C. Burgess, PhD* – Senior Research Engineer
Susanna B. Blackwell, PhD* – Senior Scientist
Katherine H. Kim, PhD* – Senior Engineer

Number of Employees: 8
Scientific and Engineering Personnel: 7
Building Space: 3,800 square feet

METATECH CORPORATION

358 South Fairview Avenue, Suite E, Goleta 93117
Website: www.metatechcorp.com/

805.683.5681
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

PACIFIC DESIGN TECHNOLOGIES, INC.

6300 Lindmar Drive, Goleta 93117
Email: m.brown@pd-tech.com
Website: www.pd-tech.com

805.961.9110
Fax: 805.961.9120

MAJOR ACTIVITIES

PDT designs and builds liquid cooling systems and components for airborne and ground applications.

KEY PERSONNEL

Rich Fisher* – President
Michael Brown* – Engineering Manager

Number of Employees: 26
Scientific and Engineering Personnel: 9
Building Space: 19,000 square feet

RAYTHEON COMPANY

Goleta-based Operations

- Electronic Warfare Systems
- Raytheon Vision Systems

Raytheon POC Local Mailing Address / Phone No.:

Stefan Baur

75 Coromar Drive, Goleta 93117

Email: stbaur@raytheon.com

805.562.2246

Fax: 805.562.4797

Parent Organization

Raytheon Company

MAJOR ACTIVITIES and KEY PERSONNEL

Electronic Warfare Systems

Website:

<http://www.raytheon.com/businesses/rsas/missionareas/tactical/index.html>

- A world leader in the development and production of Electronic Warfare products for Strategic and Tactical Aircraft, Helicopters, surface ships and submarines for the US Air Force, US Navy, and their International counterparts.

Scott C. Jackson – General Manager

Abe Himmel – Program Technical Director

Don Saleh – Chief Engineer

Raytheon Vision Systems – Infrared Detectors and Subsystems

Website: <http://www.raytheon.com/businesses/ncs/rvs/index.html>

- IR Detectors
- Focal Plane Arrays
- Cryogenic Components and IR Detectors
- Optical Coatings

Michael Prout – General Manager

Stefan T. Baur – Director of Technology

Hung Tran – Manager, Program Operations

Will Frye – Director, Space and Airborne Sensors

John Franklin – Manager, Focal Plane Engineering and Processing

Scott M. Johnson, PhD – Technical Director, Advanced Products

Ellen Linder – Director of Engineering / Quality

Gary Hughes – Manager, IC Design

Number of Employees in Goleta: 1,506

Scientific and Engineering Personnel: 800

Building Space: 529,625 square feet

SANTA BARBARA WEB HOSTING, INC.

P.O. Box 6913, Santa Barbara 93160-6913

805.692.6900

Email: support@sbwh.com

Website: www.sbwh.com

MAJOR ACTIVITIES

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

KEY PERSONNEL

David Straede* – President

SIKAMA INTERNATIONAL INC.

118 East Gutierrez Street, Santa Barbara 93101-2314

805.962.1000

Email: s.w@sikama.com

Fax: 805.962.6100

Website: www.sikama.com

MAJOR ACTIVITIES

Computer controlled reflow solder systems designed, manufactured, and marketed.

KEY PERSONNEL

Sigurd R. Wathne, PE* – President

Kail S. Wathne* – Vice President

Phillip Skeen* – Sales Coordinator

Marilyn B. Hull* – Office Manager

Robert Green – Production Manager

Number of Employees: 13

Scientific and Engineering Personnel: 3

Building Space: 9,400 square feet

SPACEK LABS, INC.

212 East Gutierrez Street, Santa Barbara 93101
Email: sales@spaceklabs.com
Website: www.spaceklabs.com

805.564.4404
Fax: 805.966.3249

MAJOR ACTIVITIES

MM-wave Technology; design and manufacturing broadband receivers, mixers, frequency multipliers, mm-wave amplifiers, oscillators, detectors and filters, 18-110 GHz

KEY PERSONNEL

Michael Wilson* – President
David Greim* – Chief Officer of Operations
Thomas Hughes – Production Manager
George Polivka, PhD* – Chief Scientist
Jeff Childers, PhD* – Vice President, Director of Amplifier Division
Jiri Polivka, PhD – Senior Scientist
Alexandra S. Wilson* – Office Manager, CFO

Number of Employees: 21
Scientific and Engineering Personnel: 8
Building Space: 10,000 square feet

SPECIAL TECHNOLOGIES LABORATORY

5520 Ekwil Street, Suite B, Santa Barbara 93111

805.681.2401
Fax: 805.681.2498

MAJOR ACTIVITIES

Applied Science and Engineering R&D

KEY PERSONNEL

Michael G. Martinez* – Laboratory Director
Rory McCarthy* – Deputy Director
Charol Champion – Operation Specialist

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

SPHERION

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Website: www.spherion.com

MAJOR ACTIVITIES

Strategic Development Associates, founded in 1997, is a strategic consulting and marketing research firm focused on the high tech industry.

KEY PERSONNEL

Susie Weslander* – Executive Recruiter

Number of Employees: 3
Building Space: 2,000 square feet

STRATEGIC DEVELOPMENT ASSOCIATES

1187 Coast Village Road, Suite 1-115, Santa Barbara 93108 805.695.8006
Email: jfeldman@sdaconsulting.net
Website: www.sdaconsulting.net

MAJOR ACTIVITIES

Strategic Development Associates, founded in 1997, is a strategic consulting and marketing research firm focused on the high tech industry.

KEY PERSONNEL

Jill Feldman* – President

Number of Employees: <9
Scientific and Engineering Personnel: <9

TEXAS INSTRUMENTS

315 Bollay Drive, Goleta 93117 805.562.5122
Email: dfriedland@ti.com Fax: 805.968.9770
Website: www.ti.com

MAJOR ACTIVITIES

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

KEY PERSONNEL

David Friedland* – Site Operations Manager
Mark Grosen, PhD* – TISB Site Manager

Number of Employees: 30
Scientific and Engineering Personnel: 27
Building Space: 12,000 square feet

TOYON RESEARCH CORPORATION

6800 Cortona Drive, Goleta 93117-3021

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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 – Chief Scientist

Joel R. Garbarino – Chairman of the Board

Michael P. Grace* – Vice President, Director of RF and Antenna Systems Team

Paul A. Castleberg, PhD* – Vice President, Director of C41SR Team

Kevin J. Sullivan – 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

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Website: www.engineering.ucsb.edu

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Fax: 805.893.8124

MAJOR ACTIVITIES

- Research efforts at the College of Engineering continue to expand, especially in the area of energy, bioengineering and biotechnology. During the past three years, new programs have been developed. We are also working to enhance and expand the Technology Management Program towards a degree-granting unit on campus.

Center for Energy Efficient Materials (CEEM), Dr. David Auston, Executive Director; Professor John Bowers, Director. The Center for Energy Efficient Materials (CEEM) is an Energy Frontier Research Center funded by the Office of Basic Energy Sciences of the US Department of Energy. The principal activity of the Center 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, the University of California 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. Based on the premise that when industry and academia collaborate, the results are amazing. That's why Engineering and the Sciences at UC Santa Barbara is working to make it easier for industry to collaborate with the university and provide services in which industry leaders are most likely to be interested: Talk directly with faculty, start by searching our faculty database; recruit students with the personalized recruiting services; partnering in research and the types of research collaborations we offer as well as access intellectual property.

Institute for Energy Efficiency (IEE), Dr. David Auston, Executive Director; Professor John Bowers, Director. The Institute for Energy Efficiency (IEE) was established on the foundation of world-leading research in technologies that impact energy efficiency. These activities will change the way people around the world think about, produce and use energy, while educating and training a new generation of energy technologists for the emerging energy economy.

Technology Management Program (TMP), UCSB's Technology Management Program (TMP) is dedicated to the study of organizational and entrepreneurial processes for translating new discoveries in science and engineering to economically productive enterprises. TMP leverages UCSB's core strength in the physical and life sciences and its strong culture of collaborative research, and is redefining engineering education with a comprehensive curriculum of preparation for the creation and management of tomorrow's technology ventures.

In addition to the academic curriculum, TMP operates a number of outreach programs for the campus and local community which include a cutting edge entrepreneurship lecture series, individual/group mentoring, a New Venture Competition, and other leadership events.

TMP currently offers undergraduate and graduate certificate programs, and is growing into a formal academic degree-granting unit, which will soon offer a professional master's degree program.

- 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
Behrooz Parhami, PhD* – Associate Dean for Academic Personnel
Subhash Suri, PhD – Chair and Professor of Computer Science
Fred Chong, PhD – Chair of Computer Engineering Program
Mike Doherty, PhD – Chair and Professor of Chemical Engineering
Jerry Gibson, PhD – Chair and Professor of Electrical and Computer Engineering
Tresa Pollock, PhD – Chair and Professor of Materials
Kimberly Turner, PhD – Chair and Professor of Mechanical Engineering

Number of Employees: 260
Scientific and Engineering Personnel: 192
Building Space: 286,886 square feet

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

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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
- Psychology
- 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 and Engineering Personnel: 280

**UNIVERSITY OF CALIFORNIA
KAVLI INSTITUTE FOR THEORETICAL PHYSICS**

Santa Barbara 93106-4030

805.893.4111

MAJOR ACTIVITIES

The Kavli Institute for Theoretical Physics is a federally-funded (NSF) institute engaged in fundamental research. The research activities include condensed matter, high energy and astrophysics. The staff is of extremely high quality and at the cutting edge of theoretics science. The Institute conducts four long-term programs (3-6 months) per year and numerous conferences and workshops (1-3 weeks). Scientists from all over the world gather to exchange information and ideas. The total number of scientists at one time is about 60. The products consist of scientific communications in journals and conference proceedings.

KEY PERSONNEL

David Gross, PhD* – Director
Martin Einhorn, PhD* – Deputy Director
Lars Bildsten, PhD – Permanent Member
Joseph G. Polchinski, PhD* – Permanent Member
Boris Shraiman, PhD – Permanent Member
A. Zee, PhD – Permanent Member

Number of Employees: 60

URS CORPORATION

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MAJOR ACTIVITIES

URS Corporation is a global firm offering a comprehensive range of professional engineering, environmental management, and construction services. Our local offices provide services in environmental planning, compliance, water resources, geotechnical engineering, hazardous waste assessment and remediation, renewable energy planning and engineering, GIS services, and site operations and maintenance activities.

KEY PERSONNEL

Timothy Cohen* – Vice President
Matt O'Brien* – Vice President–Environmental Systems Division
Gib Fates* – Vice President–Assessment, Remediation and Geosciences
Craig Woodman* – Sr. Project Manager

Number of Employees: 150

Scientific and Engineering Personnel: 140

Building Space: 1,600 square feet

VENOCO, INC.

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MAJOR ACTIVITIES

Oil and Gas Production

KEY PERSONNEL

George Ramsay* – Senior Projects Facility Engineer
Mike Wracher* – Vice President of Exploration
Bob Zahner* – Senior Petroleum Engineer

Number of Employees: 375
Scientific and Engineering Personnel: 85

WYATT TECHNOLOGY CORPORATION

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MAJOR ACTIVITIES

Manufacturer and developer of analytical instruments.

KEY PERSONNEL

Philip J. Wyatt, PhD* – CEO
Geoffrey K. Wyatt – President
Clifford D. Wyatt – Executive Vice President
Steven Trainoff, PhD – Chief Scientist
Michelle Chen, PhD – Director of Analytical Services
Carolyn Walton – Chief Financial Officer
Diane Miranda – Human Resources Director
Carl McConnell – Manufacturing Director
Michael Larkin, PhD*
Sophia Kendrick, PhD – Research and Development Engineer
Andy Meyer, PhD* – Director of Customer Service
Jeffrey Ahlgren, PhD* – Senior Application Scientist
Brent Fulgham – Software Manager
Brett Hall, PhD – Senior Software Engineer
Vincent Hsieh, PhD – Senior Scientist
Daniel Some, PhD – Principal Scientist
Aym Berges, PhD – Application Scientist
Sigrid Kuebler, PhD – Senior Application Scientist

Number of Employees: 80
Scientific and Engineering Personnel: 40
Building Space: 30,000 square feet

INDIVIDUAL MEMBERS

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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
- Data Recovery

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Financial consulting. Primary emphasis is on business and estate planning including specialized programs for executive benefits. Specialize in working with small- to medium-sized firms including family business.

BATES, DUANE M., PhD

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Duane M. Bates is a versatile PhD Physicist with experience as a technical manager, having led a number of multidisciplinary teams to create and execute optimal plans for product development and delivery. He has an extensive background in program management, systems engineering, and systems operations. Duane has proven skills in process improvement and team development. He is a certified six sigma expert (a black belt equivalent), and is experienced in the implementation of CMMI. Duane is process-oriented, innovative, and entrepreneurial.

McKinney Advisory Group: As a member of the McKinney Advisory Group, Dr. Bates applies his skills to research supporting a wide variety of business services endeavors including commercial real estate portfolio management, site selection, workforce optimization, and the capture of economic development incentives.

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- PM Brushless Motors
- High Speed Induction Motors

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- Technical Writing
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- Online Help
- Web Documentation

Contract technical writer with 10+ years of experience. Provide high-quality, professional technical writing services. Have a strong mix of writing, design, and technical skills. Am a “technical” technical writer, learn how to use a product and write about it from the user’s point of view.

Clients have included Alcoa, America Online, Cisco, Digital Instruments/Veeco, Occam, Sapiens, Sputtered Films, Texas Instruments, and Wyatt Technology.

A founder of the local chapter of the Society for Technical Communication and of a national interest group focused on instructional design.

DellaVALLE, DOMINICK M.

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I am a management and business development professional with over 28 years of experience in the government space business. I am presently supplying program management, program engineering technical expertise to a payload Spacecraft and Mission Integration team in the US launch industry.

My past experience and responsibilities have included planning five-year new business investment strategies, developing and maintaining strategic customer relationships, managing hardware and technology development and demonstration program teams, management of new business investment strategies, directing new business capture and proposal teams, developing long-term business strategies, managing overhead and expense budgets, and managing an environmental health and safety council.

Since 2007 as Owner of the DellaValle Consulting Group (DCG) I supply personnel for the aerospace industry who have unique experience in Program Management, Program Engineering, Project Management, Proposal Support, Strategic Planning, Business Development, and Marketing. DCG is presently focused in the area of mission integration in the launch services arena.

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Consultant – Science/Technology/Education

Private Tutor – Math/Chemistry/SATs

Editor, Encyclopedia of Chemical Technology, 4th Edition

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Simulation Technologies is a business area of Northrop Grumman Mission Systems, Tactical Systems Division doing business with the Department of and non-DoD government agencies in the fields of modeling/simulation, distributed simulation, verification and validation, command, control and communications, aviation services, system integration, and engineering.

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Venture capital investment and assistance for early stage technology based businesses.

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Consulting in electronic materials, IR Detectors
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Purdue University – Engineering
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Sanitary Engineering; Transportation Planning; US State Department Foreign Aid Program; Mining, Oil and Gas Financing; LBO Financing

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Long time writer for *Physics Today* magazine

LEVI, ILAN M., PhD

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Now retired, was a lab director at AT&T Bell Labs

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Product Design and Manufacture:

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LOMBARDO, RUSSELL

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Mr. Lombardo has over 25 years of experience in laser, infrared, electro-optical sensor and systems analysis and engineering as well as product development. He has operated his company, Lombardo Technical Services based in Santa Barbara, CA, since 2002. He most recently led R&D efforts for a Fortune 500 company in the field of advanced thermal imaging.

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MARKHAM, JAMES W., PhD

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Titles: **Librarian Emeritus,**
Adjunct Curator of Algae Collection
Dept: Cheadle Center for Biodiversity and Ecological Restoration (**CCBER**),
UCSB

2006: retired from second career (science librarian);
2007: returned to first career (marine botanist) as volunteer at CCBER.

McLENNAN, MILES W.

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Available as consultant in underwater acoustics, tracking systems analysis, marine cable laying analysis and modeling, general computer modeling and programming.

McROY, BRUCE W.

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Attorney specializing in representing technology and industrial companies in corporate transactions and intellectual property.

MENDES, STANLEY H.

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Earthquake Engineer Consultant

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Custom Electronic Systems and Circuits, Real-Time Signal Processing, Embedded Microprocessors

NAUMANN, WALTER

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Instrumentation, Physicist; Sailor; Pilot; General Contractor Engineering

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CHIEF SCIENTIST, SEDS, LLC. Integrated supply chain management for repair of military armored vehicles. Weapons detection systems, including hidden weapons under clothing, roadside bombs (IEDs), and domestic port security.

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- Consulting Scientist for lighter-than-air flight.
- Consultant on design of the new US Navy Advanced Blimps since 1986.
- Founder of modern ballooning movement. One of its greatest and most creative exponents.
- Projects include the design and construction of the first hot air balloon with a pressurized cabin. Piloted it to a world record altitude.
- Licensed for all types of balloons with commercial, instructor's, super-pressure and night ratings; an unrestricted RT license; a parachuting "A" license; and an International (FAI) Sporting License.

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- Mr. Ruben is currently helping develop additional Li-Ion battery systems for Army, Marine, and NATO ground forces, following successful completion of a 3-year effort to develop and deploy Li-Ion battery systems for the Army's avionics fleet. Derivatives of that effort are now also being deployed to power some of the Army's more advanced weapons systems.
- The technologies developed for these government supported Li-Ion battery applications is also applicable to many other market segments. Current efforts are focused on developing advanced hybrid power systems, with superior cost and power per unit weight characteristics, for energy assisted bicycles and the "warrior of the future" power packs. Inquiries are invited from interested parties.

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