

WHO'S WHO IN CLEAN TECH & SUSTAINABILITY

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Region takes lead in clean tech, sustainable business practices

Who's Who in Clean Tech & Sustainability enters its fourth year of publication with some notable changes in these leading-edge sectors.

Longtime readers of the Pacific Coast Business Times already know that Who's Who in Clean Tech & Sustainability profiles leaders in areas related to alternative energy, green building and sustainable practices for corporations.

This special report is part of a broader ongoing effort by the Business Times to recognize and develop an industry cluster that we call the Green Coast. We think this region is a promising area for the region's entrepreneurs to create sustainable endeavors and the well-paying jobs that are part and parcel of the clean technology sector.

During the past five years, the Tri-Counties have gained a big head start in this area — we host a number of leaders in the clean technology or alternative energy field. But the past few years also have proven to be a challenge as some of our bigger players left the area or shut down.

Here is a closer look:



HENRY DUBROFF

Editor

- San Luis Obispo County's two utility-class solar power installations are well into their construction phase, creating several hundred Central Coast jobs. One project is owned by Mid-American, a utility that is part of Warren Buffett's Berkshire Hathaway holdings. Combined, the two solar projects will have more than 600 megawatts of power production.

- Ventura County's leadership in green technology has been enhanced by Gills Onions, Houweling's Tomatoes and Limoneira Co., three of the nation's biggest innovators in the area of sustainable agriculture.

- Ceres, a Thousand Oaks-based producer of energy crops for alternative fuels, and Transphorm, a designer of energy efficient computer chips for server farms and other applications, are two of the leading development stage companies for clean tech in the nation.

- Earlier this year, UC Santa Barbara's College of Engineering brought former Secretary of Energy Steven Chu to the region for its annual Summit on Energy Efficiency.

Meanwhile, California Lutheran University launched a sustainable business MBA program in May 2012.

- Among setbacks, Power-One, a Camarillo-based leader in power inverters for the wind and solar industries, has been acquired by Swiss firm ABB. And CoolPlanet Energy Systems, a leader in biochar, is moving its operations to Colorado.

Who's Who in Clean Tech & Sustainability remains a work in progress in a field that is rapidly changing; we ask for your help in identifying new leaders in the growing field.

Our special report was produced by Research Director and Special Reports Editor Dara Barney. Advertising Graphic Designer Elizabeth Willhite designed our cover.

This special report would not be possible without the support of our sponsor, Rabobank. Stay tuned for our next special report, Fastest-Growing Companies, which publishes on Aug. 23.

- Contact Editor Henry Dubroff at hdubroff@pacbiztimes.com.

Kathryn Arbeit

Project Development Director

First Solar

Santa Barbara County



Arbeit currently leads development of the 40-megawatt Cuyama Solar Project in Santa Barbara County and directs First Solar's development activities in Texas and the eastern U.S.

Arbeit is a renewable energy professional with experience working with electric utilities in the U.S. and experience focused on large-scale renewable energy project development.

Prior to joining First Solar, Arbeit was director of business development at Op-tiSolar.

Kathryn Arbeit is the director of project development at First Solar.

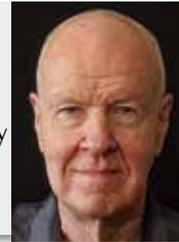
She was in charge of developing the 550-megawatt Topaz Solar Farm in San Luis Obispo County.

David Auston

Executive Director

UCSB Institute for Energy Efficiency

Santa Barbara



He has been a member of the technical staff and department head at AT&T's Bell Laboratories, professor of electrical engineering and applied physics and dean of the School of Engineering and Applied Science at Columbia University, provost of Rice University and president of Case Western Reserve University.

David Auston is the executive director of the Institute for Energy Efficiency and the Center for Energy Efficient Materials at UC Santa Barbara. Prior to joining UCSB, he was president of the Kavli Foundation.

Auston has contributed to research in the fields of lasers, nonlinear optics and solid-state materials. He is also a member of the National Academy of Sciences and the National Academy of Engineering.

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Craig Breese

President, CEO

Clean Diesel Technologies
Ventura



Craig Breese joined Clean Diesel Technologies as president, CEO and director in March 2012.

He has more than 30 years of experience in senior business management roles encompassing global business development, acquisitions, strategic alliances, plant management, sales, marketing and finance. He has business experience with original equipment manufacturers, automotive aftermarket and heavy-duty diesel businesses. Breese's prior experience includes four years with Honeywell International, a Fortune 100 company that invents and manufactures technologies to address challenges linked to global macro trends such as safety, security and energy. From 2008 to 2011, he was president of Honeywell Consumer Products Group.

Wolfgang Bullmer

CEO

Transonic Combustion
Camarillo



Wolfgang Bullmer is CEO of Transonic Combustion. He has more than 25 years of experience in the automotive sector.

Bullmer has been in leadership positions with BorgWarner as vice president of advanced engine engineering and BorgWarner Morse TEC as vice president and general manager of engine products, where he led the introduction of a new cam torque actuated variable cam timing system, winning two Premier Automotive Suppliers' Contribution to Excellence awards in 2009.

Before that he was with Mann+Hummel GmbH from 1998 to 2003 as a vice president of a pair of groups, including its Intake Manifold Business unit.

Bill Camarillo

CEO

Agromin
Oxnard



Bill Camarillo is the CEO of Oxnard-based Agromin, one of the largest organics recyclers in California.

He has been in the industry for more than 20 years.

As CEO of Agromin, he plays a key role in pioneering sustainability through organics conversion.

All of Agromin's 200-plus eco-friendly organic soil products — which range across the retail, agriculture, landscape and energy sectors — are the result of more than 380,000 tons of organic materials that are converted each year.

Over the past several years, Agromin has received numerous awards in recognition of its sound business practices and its recycling and sustainability efforts.

Craig Christenson

President, CEO

Turbine Technology Partners
Santa Barbara



Craig Christenson, president and CEO of Turbine Technology Partners, was senior vice president of engineering at Clipper Windpower from 2007 to 2012.

Prior to joining Clipper, Christenson was chief engineer for GE's wind turbine product line. During his tenure at GE Energy, Christenson's technology team leadership enabled the rapid growth of its wind business unit to become one of the world's leading wind turbine suppliers through the introduction of GE's advanced 1.5-megawatt and 2.5 multi-megawatt product lines.

Christenson received a U.S. Department of Energy R&D Partnership Award for his contribution to the advancement of wind power technology and holds several U.S. patents.

Joey Briglio

Senior Planner

Ventura



Joey Briglio is a senior planner, formerly known as the sustainable business developer, for the city of Ventura's economic development division.

Briglio is tasked with attracting, retaining and expanding businesses, especially "green" ones, to the area.

He helps build a local economy on the principles of sustainability — social equity, environmental responsibility and financial prosperity.

Briglio, an Ojai native who is also the executive director for Ventura Ventures Technology Center, was named a Pacific Coast Business Times' 40 Under 40 recipient in 2012.

William Buratto

President, CEO

Ventura County Economic Development Association
Ventura County



William Buratto brings more than 32 years of experience in nonprofit management to his position as president and CEO of the Ventura County Economic Development Association. He held executive positions in health care, higher education and social services before joining the association. Buratto is also chair of the Green Coast Alliance, an informal group working to grow the green economy in the region. He serves as executive director for TRIAD, an initiative of VCEDA to stimulate economic growth between Naval Base Ventura County and the private sector.

Buratto received a bachelor's degree in psychology from the University of Illinois and a master's degree in clinical psychology from Roosevelt University in Chicago.

Dave Chakraborty

Associate VP for Operations, Planning and Construction

CSU Channel Islands
Camarillo

Dave Chakraborty leads the sustainability efforts at CSU Channel Islands' campus. He has led energy-efficiency upgrade projects and implemented aggressive energy management techniques. As a result, the campus has reduced electricity consumption by more than 30 percent since 2007. He has targeted an additional 10 percent reduction by 2015. Chakraborty also led water conservation measures and has reduced potable water consumption by 50 percent since 2007. The campus is irrigated by reclaimed water irrigation system.

Campus landscaping is gradually being switched over to California-native, drought-tolerant planting to further reduce water usage. The campus currently diverts and recycles more than 50 percent of its waste.

Dave Davis

President, CEO

Community Environmental Council Santa Barbara
Santa Barbara



Dave Davis is the president and CEO of the Community Environmental Council, a 43-year-old nonprofit focused on promoting energy efficiency, renewable energy and sustainable transportation, addressing the critical issues of clean energy and climate change.

He is currently the chairman of the Santa Barbara Metropolitan Transit District board of directors, the provider of regional transit services to the Santa Barbara South Coast and a national leader in electric bus technology.

Davis is also a member of the board of directors of the UCSB Economic Forecast Project and the Santa Barbara Regional Chamber of Commerce Business Leadership Council.

John Brooks

Environmental Program Senior Analyst

Thousand Oaks



John Brooks oversees the Thousand Oaks environmental programs, including the development of the city's Certified Green Business program. He is certified as an economic development finance professional and coordinated a recycling grant for the 28 Conejo Valley Unified School District schools at 21,000 students.

He is active in the California Green Business Network leadership group and sits on the Clean Green Subcommittee of the Ventura County Workforce Investment Board. Brooks' professional experience includes writing state environmental regulations, developing infrastructure for safe disposal of household hazardous waste and educating residents on environmental issues in 15 rural counties.

Rob Bushman

CEO

Solarsilicon Recycling Services
Ventura



Rob Bushman founded Solarsilicon Recycling Services, or SRS, in 1996 and is the company's CEO. He is responsible for overseeing business administration and operations and executing all sales activities to current and prospective customers. Bushman is directly responsible for originating the company's customer base.

He has more than 20 years of professional management experience in business planning and development, marketing, public relations, account management and industrial sales. Prior to founding SRS, he was the executive vice president of a California-based scrap metals processing and recycling company where he managed more than 150 industrial scrap metal accounts that generated more than \$14 million per year.

Yvon Chouinard

Founder, CEO

Patagonia
Ventura

Yvon Chouinard is the founder of Patagonia, the outdoor clothing company known for its sustainable practices. Fortune magazine has described Chouinard one of the most successful outdoor industry businessmen in the world, and he's also famous for his environmentalism. One example of a responsible business practice is Patagonia's commitment to using 100 percent organic cotton to manufacture its t-shirts. Companies around the world have modeled their environmental practices after Patagonia — Walmart, for instance, has taken Chouinard's advice on how to reduce packaging and water use. Chouinard is also the co-founder of 1% For The Planet, an alliance of companies that contribute at least 1 percent of their annual revenues to environmental causes.

Diane de Mailly

President

DDM Metering Systems
Ventura



Diane de Mailly is president of DDM Metering Systems, a utility submetering company dedicated to helping multi-tenant properties conserve energy and control utility costs.

In 2011, the Ventura Chapter of the National Association of Women Business Owners named de Mailly "Woman Business Owner of the Year."

De Mailly chairs the Ventura Chamber of Commerce Green Task Force, whose mission is to empower the local business community to work "green" through educational initiatives that positively impact the environment. Highlights of the GTF's program include "Best Green Practices" workshops, "Green Drinks," and the annual Green Jobs Expo.

Neil Dipaola

CEO

Mesa Lane Partners
Santa Barbara

Neil Dipaola is CEO of Santa Barbara based Mesa Lane Partners, a firm that has developed a number of public-private in-fill projects as well as green mixed-use student housing buildings.

Dipaola was recognized with California's highest environmental honor, The Governor's Environmental & Economic Leadership Award, for his work to develop prototype net-zero energy buildings. He also leads Dipaola Capital, an entrepreneurial real estate hedge fund, which recently seeded a \$75 million fund to acquire sustainable urban properties.

He is a member of the Partnership Council for the Community Environmental Council and serves on the board of the Environmental Defense Center.

John Ewan

President, CEO

Pacific Energy Co.
San Luis Obispo

John Ewan founded Pacific Energy Co. as a way to promote an alternative to nuclear power. Since its establishment, Pacific Energy Co. has become San Luis Obispo County's top retailer of solar electric equipment. Ewan and his team have been recognized in national publications for solar electric systems installed throughout the Central Coast.

He has lectured at Cal Poly San Luis Obispo, and, in 2006 was a featured speaker at Sailfest in Zihuatanejo, Mexico. He has more than 30 years of experience in the photovoltaic industry and has extensive knowledge of off-grid PV system products and services, Leadership in Energy and Environmental Design consultation and Title 24 compliance reports.

Dave Forston

CEO

LoaCom
Santa Barbara

After 10 years advocating for regional environmental policies, Dave Fortson left the nonprofit and government sector to work at then-startup music tech firm Sonos to learn business. After several years at Sonos, Fortson started LoaTree to integrate his experiences as an eco-advocate and businessman. LoaTree spun off a consulting agency, LoaCom, to implement "better world strategies" for business, nonprofit and government clients. LoaCom synthesizes the corporate world's emphasis on communication and marketing, the nonprofit world's mission-driven focus and people's desire for meaningful connection. LoaCom specialties include marketing, communication, strategic development, strategic philanthropy, public awareness campaigns and events.

Richard Hamilton

President, CEO

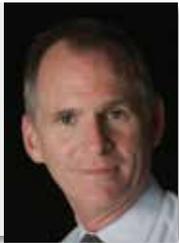
Ceres
Thousand Oaks

Richard Hamilton has been the CEO and a board member of energy crop company Ceres since 2002. The prior four years he was the company's chief financial officer. In addition to his leadership role at Ceres, he sits on the Keck Graduate Institute Advisory Council and serves as a board member of First Green Partners.

He is also a founding member of the Council for Sustainable Biomass Production. Hamilton has previously served on the U.S. Department of Energy's Biomass R&D Technical Advisory Committee and has been active in the Biotechnology Industry Organization, where he has been vice chairman of the organization, chaired its food and agriculture governing board and served in other leadership roles.

Ross Dueber

President, CEO

ZPower
Camarillo

Ross Dueber, president and CEO of ZPower in Camarillo, has led the company in pioneering the development of silver-zinc battery chemistry for hearing aids and portable electronic devices. His success in commercializing silver-zinc rechargeable battery technology is enabling the industry to achieve new levels of battery performance, safety and environmental-friendliness. During his career, Dueber has participated in defining battery and energy storage strategies for the U.S. Air Force, Department of Defense, Department of Energy and NASA. He has worked with companies such as Ford, United Technologies and Dow Chemical on battery and fuel cell development, and headed lithium-ion battery research and development at Eagle Picher Industries.

B. Scott Farrenkopf

Executive VP

GoTek Energy
Oak View

B. Scott Farrenkopf has spent 30 years in the auto industry. He is currently executive vice president of GoTek Energy, a Ventura County rotary any-fuel engine startup company. From 2006 to 2009, he was the general manager of Kavlico, a pressure sensor manufacturer. Previously, he led global engineering for actuators and the Mexico Technical Center at Delphi, an automotive component manufacturer in Juarez. Before that, he was responsible for South American engineering for chassis, batteries, and the South American Technical Center at Delphi in Brazil. From 1983 to 1998, he held various positions at General Motors, an automotive OEM, including controlled suspension and brake-by-wire global engineering.

Herb Gardner

President, Homebuilding Group

City Ventures
Ventura

Herb Gardner has 25 years of green experience managing the building of residential and apartment communities in more than 60 cities in three states.

After starting in 1985 as a customer service representative for a national homebuilder in Dallas, he spent the next five years rising through the ranks, eventually ending up as the division president for the company's Oklahoma City division.

In 1990, he co-founded his own homebuilding company in Southern California, primarily building in the Inland Empire. For more than 15 years, Gardner Construction built, sold and closed more than 1,000 homes in 12 in-fill communities.

Laura Hamman

Sustainability Manager

Gills Onions
Oxnard

Laura Hamman is the sustainability manager for Gills Onions, a nationally recognized leader in sustainability and renewable energy. She joined Gills to spearhead the company's initiative to achieve zero-waste at its Oxnard processing facility, a goal that has largely been achieved.

She leads the company's other sustainability initiatives, including tracking and analyzing performance metrics, expanding diversion opportunities and managing the greenhouse gas emissions' inventory reported to the Climate Registry. Hamman received a graduate degree from the Bren School of Environmental Science and Management at UC Santa Barbara, as well as a master's degree in finance from Universidad del CEMA in Buenos Aires, Argentina.

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BUSINESS TIMES**Aaron Floyd**

Environmental Programs Manager

San Luis Obispo



Aaron Floyd began working for the city of San Luis Obispo while receiving his master's degree in biology from Cal Poly.

Floyd has worked on several water quality issues ranging from federal water quality regulations to the installation of local stormwater treatment structures.

As of 2012, Floyd's leadership included management of a large collaborative effort, the Sustainable Solutions Turnkey Project, involving city staff, technical experts and PG&E.

The goal of the project is the reduction and eventual elimination of electrical consumption used in the treatment of wastewater at the city's water reclamation facility.

Roland Geyer

Associate Professor

Bren School of Environmental Science and Management
UC Santa Barbara

Prior to joining the Bren School of Environmental Science and Management in 2003, Roland Geyer worked as consultant and researcher in Germany, France and the UK. He received his graduate degree in physics from the Technical University Berlin and a Ph.D. in engineering from the University of Surrey.

Since 2000, he has worked with a wide range of governmental organizations, trade associations and companies on environmental sustainability issues. In his research he uses the approaches and methods of industrial ecology, such as life cycle assessment and material flow analysis, to assess pollution prevention strategies based on reuse, recycling and material and technology substitution.

Ralph, Jim and Myron Harrison

Principals

Harrison Industries
Ventura

Ralph Harrison is in charge fleet operations, maintenance and service departments, inventory controls and heads up an extensive research and development department at trash-hauling and recycling firm Harrison Industries.

His brother, Jim, is in charge of contract negotiations, acquisitions and field operations, including sales, safety and personnel.

Myron Harrison is responsible for putting together loan packages for projects and oversees billing, accounts payable and receivable and the ordering of new equipment and materials.

All three brothers were born and raised in Ventura County and began to work for the family business in 1960s.