



Gary Allen
Consultant

Gary Allen's university degrees are all in chemical engineering. He received his BS from Tulane University in 1970 and his ME and PhD degrees from the University of Florida in 1971 and 1974, respectively. He did his PhD research under Art Westerberg in the area of computer modeling and computer-aided design.

Immediately after graduating in 1974 he began a 30-year career in the chemical industry, working successively for Union Carbide, ARCO Chemical, Lyondell Chemical, and Bayer. Interestingly, all of his changes of company were the result of acquisitions. Dr. Allen was involved in R&D management for most of his career. He had global polyurethanes R&D responsibility for both ARCO Chemical and Lyondell Chemical and was VP of Research for Bayer's North American Polyurethanes business. He led the development and commercialization of the "Impact" double metal cyanide catalyst technology for polyether polyols, which is currently owned by Bayer and is licensed worldwide. He is the inventor of seven US patents associated with this technology and was awarded Atlantic Richfield's Outstanding Technical Achievement Award in 1996 for his role in developing the technology. He left Bayer in 2004 and has been actively consulting in the chemical industry since then.

He is an avid, though not accomplished, golfer. He also enjoys tennis and woodworking. He has served on the advisory boards to the Chemical Engineering Department at the University of Florida and West Virginia University.



Arthur B. Anderson

Arthur Anderson is retired from the corporate world, after 35 years in Research & Development and Manufacturing Operations at leading consumer products companies, including Campbell Soup, PepsiCo, Kraft Foods (Philip Morris), and Procter & Gamble. Arthur's corporate roles included: Senior Vice President-Global Research & Development and Quality-Campbells, Senior Vice President-Advanced Technology-PepsiCo, VP-Operations and R&D Strategy-Kraft Foods, and Director-Research and Development for Personal Care New Products-Procter & Gamble. Arthur earned his BSChE from the University of Florida, where he is a Board member and former chairperson of the UF Chemical Engineering Advisory Board. Past memberships include: Monell Chemical Senses Board, Institute of Food Technologists, Executive Leadership Conference, and Executive Council for Grocery Manufacturers/Food Products Association Science Institute.



Maluwa Behringer
Associate Director, Procurement Quality
Kraft Foods



Kamlesh K. Bhatia
Retired Research Fellow
Dupont



Christopher J. Birdsall
Global Supply and Planning Manager
ExxonMobil Chemical Company

Chris Birdsall is a second generation Gator, and received his bachelor's degree in chemical engineering with highest honors from the University of Florida in 1996. Upon graduation, he moved to Houston, Texas to start his career with ExxonMobil as a process engineer in polymers manufacturing. Since then he has served in various technical and management roles, and he is currently the Global Supply and Planning Manager for ExxonMobil's Synthetics business. In addition to his responsibilities, Chris led the recruiting efforts at ExxonMobil for the University of Florida, where he enjoyed bringing new Gator engineers into the ExxonMobil family. His career with ExxonMobil has been dynamic, exciting, and personally rewarding.

Chris is married to his high school sweetheart, Julianne Birdsall (UF BSCE). They currently reside in Katy, TX, and have two beautiful children. The family remains passionate about the University of Florida, and they enjoy supporting the Gator Nation in any way they can. Chris and Julianne were among the founding members of the Baton Rouge Gator Alumni Club; bringing the Gator Nation directly into enemy territory. They were also leadership donors for the ExxonMobil

Alumni Chemical Engineering faculty endowment, which will ensure the department can continue to serve future generations of Gatorengineers.



Eric Bretschneider
Director of Engineering
HeathCo, LLC



Dr. Vasant D. Chapnerkar
President

SAI International Inc.

Dr. Vasant D. Chapnerkar is originally from India and has been in US for the last 52 years. He holds B.Sc. (Tech) in Chemical Engineering from University Department of Chemical Engineering in 1954. He holds a Ph.D. in Chemical Engineering from University of Florida. He has been working with alkaline paper making since 1962. He has been very active in TAPPI(Technical Association of Pulp and Paper Industry) and American Institute of Chemical Engineers. He holds several patents and published articles on alkaline papermaking and Precipitated Calcium Carbonate(PCC). In December, 2003 he presented a paper on Alkaline paper making at International conference in New Delhi. Presently he has supplied his alkaline technology to over 40 plants all over the World. He has concentrated to transfer lime, PCC and alkaline paper making technologies in India, Thailand, Uruguay, Mexico, Colombia, Jamaica, Brazil, United States, Canada, Sweden. He was the first one to build on-site PCC plants in United States, Canada and Europe. He is presently marketing the alkaline paper making technologies to India, Philippines, Taiwan, China, Middle East and Africa.

Dr. Chapnerkar is planning to start a Paper Institute in India to help do research in papermaking.

Dr. Vasant D. Chapnerkar, the last ten years been involved in Fitness business in India. He formed a company named SAI FITNESS in India with Mr. Ramesh Chafekar who has been in Fitness business in India for last 30 years. Today SAI FITNESS is the largest and leading company to promote Fitness Clubs in India. Most of the major Hotels and Health Clubs have been designed and installed by SAI FITNESS. The cardiovascular fitness equipment is being shipped from U. S. to India. .



Ray Cocco

President

Particulate Solid Research, Inc. (PSRI)

B.S. in Ch.E. at University of Florida in 1982

Ph.D. in Ch.E. at Auburn University in 1989

Dr. Cocco has been with PSRI for five years where he has the role of President. Particulate Solid Research, Inc. (PSRI) is a consortium-based company with 28 member companies in Canada, France, Brazil, Finland, Germany, India, South Africa, Saudi Arabia and the United States. Before PSRI, Dr. Cocco was with The Dow Chemical Company for 17 years as a Technical Research Leader. He led research and development efforts in numerous particle technology platforms including the production of WoodStalk™ (a particleboard made of straw) for Dow BioProducts, the production of vinyl chloride monomer and RCl oxidation using fluidized beds, the production of hydrocarbon using circulating fluidized beds, the development of polyolefin catalyst for fluidized beds, and in the production of aluminum nitride and silicon carbide ceramic powders using moving bed reactors. In addition, Dr. Cocco was instrumental in bring in computational fluid dynamics, Six Sigma and Design for Six Sigma methodologies into Dow's research environment. Recently, Dr. Cocco is actively engaged at PSRI in the research and development of commercial-scale gasifiers, circulating fluidized beds, fluidized beds, cyclones and standpipes using both large-scale experimental units mirrored with detailed computational fluid dynamics.

Dr. Cocco has always married modeling with experiments to maximize development efforts with commercial chemical processes. He was actively involved in setting up and managing the Multiphase Fluid Dynamics Research Consortium (MFDRC) which consisted industry, national labs and universities focused on developing experiments that specifically addresses mathematical limitations with modeling fluidized bed and circulating fluidized beds. That effort resulted in computational fluid dynamic codes specifically for granular-fluid systems. Today, he is Chairman of the AIChE Particle Technology Forum (Group 3), a board member of ASTM's D18.24 Committee on Characterization and Handling of Powders and Bulk Solids and is on the Advisory Board for University of Florida's Chemical Engineering Department. He has 25 publications, 3 book chapters, three patent, numerous of invited presentations and consults for industry, national labs and universities on a regular basis.



David G. Cummins

Assistant Brewmaster

Anheuser-Busch, Inc.



Robert (Rob) Dotson

Senior Technical Service Engineer
Dow Oil and Gas
The Dow Chemical Company

Robert (Rob) Dotson has worked for The Dow Chemical Company since 1988 after retiring from Tennessee Valley Authority (TVA). At Dow, Rob has worked in Process Engineering, Vinyl Chloride Monomer (VCM)/Ethylene Dichloride (EDC) manufacturing, and as a Global Business Product Steward.

He is currently a Sr. Technical Service Engineer in the Dow Oil & Gas Business specializing in natural gas and refinery hydrocarbon treatment.

Rob holds a BSChE degree from the University of Florida and is an author, private pilot, scuba diver, and golfer. He is also a registered Professional Engineer in Texas.



Jaime Flaherty

Section Manager of Ingredient & Process Research
Kraft Foods

Jaime Flaherty is a Section Manager for Ingredient & Process Research at Kraft Foods. In this role, she manages basic research efforts related to ingredient technology development and applications to Kraft's global portfolio of food products.

Jaime joined Kraft in 2000 as an Associate Research Engineer after receiving a BSChE degree from the University of Florida. She has held a number of product development roles supporting business such as Kraft Macaroni & Cheese, California Pizza Kitchen frozen pizzas, Philadelphia Cream Cheese and Kraft Singles.



Michael Haycock
Vice President
Tropicana Operations

Mike Haycock is currently Vice President of Manufacturing and Warehousing for Tropicana (owned by PepsiCo). He has been in that position for 7 years. Before that he was Vice President of Engineering for Tropicana and spent 20 years with Procter and Gamble working in Engineering and Manufacturing. He has a Bachelor Degree in Chemical Engineering from the University of Florida and graduated in 1972. He is active in the Citrus Industry and currently is serving a second term on the Florida Citrus Commission. He has four married children and 8 grandchildren and lives in Longboat Key, Florida.



Mary Bloss Jakab
Operations Engineer
Johnson & Johnson Vision Care, Inc.



Wayne Johnson
Vice President of Technology, III-V Group
Kopin Corporation

Dr. Wayne Johnson received the B.ChE. degree from Georgia Institute of Technology in 1997 and Ph.D. from the University of Florida in 2001. His Ph.D. work in Professor Fan Ren's research group in the Department of Chemical Engineering focused on GaN-based devices for high power electronics. After working at Deposition Sciences, Inc. in Santa Rosa, CA and Sandia National Laboratories in Albuquerque, NM, Wayne joined Nitronex Corporation, an early-stage semiconductor company in Raleigh, NC. At Nitronex, he led the progression of GaN technology from basic materials research through product development and commercial realization. In 2004, Wayne and collaborators demonstrated world record power density from a GaN-on-Si electronic device and in 2006 launched the world's first product line of GaN-on-Si RF power transistors. In 2010, he accepted a position as Director of New Business and Product Development at Kopin Corporation in Taunton, MA, a NASDAQ-listed nanotechnology company and leading supplier of

III-V epitaxial wafers and microdisplays. Later in 2010, he was named to his current role as Vice President of Technology for Kopin's III-V Group. The technology developed by Wayne's team at Kopin is contained inside most major smartphones, tablets, and other mobile devices and has been integrated into more than 1 billion handsets worldwide.

Wayne has authored or co-authored over 130 journal articles and conference presentations on compound semiconductor materials and device technology, has co-authored 2 book chapters, and holds 6 U.S. patents. In 2011, he was named an Outstanding Young Alumnus of the University of Florida. He currently resides in Easton, MA.



Steve Johnston, Ph.D.

Director, Technology Strategy and External Programs
Global Supply Management
Intel Corporation

Dr. Steve Johnston is Intel's Director of Technology Strategy and External Programs where he is responsible for managing Intel's equipment/materials/component supply chain enabling programs, EUV lithography infrastructure development, worldwide consortia engagements, 450mm activities, and TMG's strategic research and PR communication initiatives. As part of this, Dr. Johnston oversees Intel's technology and manufacturing supply chain investment and collaboration processes and is responsible for silicon technology roadmap executive alignment with memory and foundry manufacturers. Additionally, Dr. Johnston manages Intel's ITRS engagement and connecting Intel's long term equipment/materials/component supply chain roadmap programs to xSIA, SEMI and global public policy initiatives.

Dr. Johnston is a member of the G450C executive management council, IMEC's executive advisory council, and SIA's CTO committee. He has a Ph.D. in Chemical Engineering from the University of Florida, currently holds 15 patents and has authored >50 publications/presentations.



Kevin J. Kennelley
BP Group

Kevin Kennelley is the Vice President of Engineering and Technology for BP's Global Projects Organization. In this position he provides support, direction and leadership in the areas of Engineering and Technology to all of BP's E&P major projects around the world. Over the past 31 years Kevin has held leadership assignments in Projects, Engineering, Operations, and Research and Development in locations that have included Texas, Alaska, Indonesia, Malaysia, Azerbaijan, and London. His professional qualifications include:

- BS in Metallurgical Engineering and Materials Science – University of Oklahoma (1980)
- MS Metallurgical Engineering and Materials Science – University of Oklahoma (1985)
- PhD in Metallurgical Engineering and Materials Science – University of Oklahoma (1986)
- Registered Professional Engineer in the State of Texas since 1989
- Fellow of the Institute of Engineering and Technology in the UK since 2002

Dr. Kennelley is the author/editor of two books, thirty-four published technical papers and a U.S. Department of Transportation Report on the Trans Alaska Pipeline. He holds a U.S. patent on offshore structures design and multiple process patents on LNG technology. He is the recipient of the D. Grant Mickle Award from The National Research Council/National Academy of Sciences/National Academy of Engineering and the A.B. Campbell award from the National Association of Corrosion Engineers. His contributions to the Projects community include authoring the Engineering and Quality Management Guideline for Major Projects and developing the bp Engineering Management course that is now taught at the University of Manchester.



Paul Mathias
Senior Fluor Fellow, Technical Director
Fluor Corporation

Dr. Mathias is a chemical technologist with over 30 years of broad experience and a specialization in properties and process modeling. He currently works as a Technology Director and Senior Fellow at Fluor Corporation. His experience covers petroleum, inorganics, gas processing, electrolytes and polymers. He previously worked for Aspen Technology, Air Products and Chemicals and the ASPEN Project at MIT. He currently also teaches courses at the University of California, Irvine.

Dr. Mathias has made significant contributions to professional organizations. He has fifty eight publications and eighty technical presentations. He is an Associate Editor of The Journal of Chemical & Engineering Data and has been a member of the editorial advisory board of two journals: The Journal of Chemical & Engineering Data (1997-2004) and Industrial and

Engineering Chemistry Research (1997-2001). He has served on the advisory board of the chemical engineering departments at three universities: University of Florida (1990-present), University of Illinois at Chicago (2004-present), and Texas A&M University (2004-2006). He has served on the Thermodynamics and Transport Properties committee of AIChE (1986-2002; Chair 1999-2000) and serves on the Joint ASME/AIChE Committee on Thermophysical Properties (2001-present). He regularly reviews articles for scientific and engineering journals.



William K. "Billy" McGrane PhD MBA
Former Chairman the Homac Companies
CH2M HILL Senior Project Manager

Dr. McGrane is ex-Chairman of the Board of Homac Manufacturing Company. Dr. McGrane led Homac, an integrated cable connector manufacturer, for 10 years

As chemical oxidation technology manager in CH2M HILL's Charlotte office, Dr. McGrane is responsible for developing technology and implementing water and wastewater systems for municipal and industrial clients. His chemical oxidation experience includes ozone, hydrogen peroxide, ultraviolet (UV) light, catalysts, and reverse osmosis (RO) systems. Dr. McGrane has an extensive background in establishing full-scale operation systems from pilot-scale and lab-scale studies.

Prior to joining CH2M HILL, Dr. McGrane served as a guest researcher at the Centers for Disease Control (CDC) in Atlanta, Georgia, where he designed and performed lab experiments to determine effective means of control of Legionnaire's Disease (*Legionella pneumophila*). The *L. pneumophila* bacterium is found in most water systems and becomes contagious when the bacterial population reaches concentrations in excess of 50,000 counts per milliliter. Dr. McGrane built a growth system to provide a continuous culture of *L. pneumophila* at epidemic concentrations. He then built a bench-scale cooling system, which was inoculated with these cultures to simulate real-life conditions. Different biocides were used to control the growth of the bacteria. Data was collected and analyzed to determine the effective concentration and dosages needed for *L. pneumophila* disinfection and control.

Dr. McGrane was formerly a senior process chemical engineer for a diversified chemical manufacturer in St. Louis. In this capacity he evaluated distillation requirements for production of maleic anhydride. He ran batch distillations and developed mathematical models to determine the effect of byproducts on finished product quality and quantity. He also evaluated cost, reactants, products and byproducts for elemental phosphorus production, and he used heat and material balance information in modeling electric arc phosphate ore reduction processes.



Jeffrey Narrow
Director of Strategic Environmental Engineering
Mosaic Fertilizer, LLC

Jeff Narrow is currently Director of Strategic Environmental Engineering Initiatives for Mosaic Fertilizer, LLC. Jeff has been with Mosaic or its predecessors for 24 years where he has held a variety of operations and engineering management positions. He holds a Bachelor of Science degree in Chemical Engineering from the University of Missouri, Rolla and serves on the Board of Directors for the Campo FamilyYMCA.



Armando (Manny) Rodriguez

After graduating from FLORIDA with a BSChE degree, Manny hired with the DuPont Co. in 1967 and progressed through assignments in manufacturing, R&D, and marketing in Textile Fibers at several locations. When Dupont and Sabanci Holding of Turkey joined their yarn spinning and fabric manufacturing assets in 2001 into DUSA, Manny was appointed VP-Global Sales and Marketing, a position he maintained after Sabanci acquired all of DUSA and incorporated it with their polyester spinning assets under the name of KORDSA. Manny retired from Dupont after 38 years and from Kordsa in 2006.

He has been married for 45 years, has 3 children and 5 grandchildren and maintains residences at The Villages in Florida and Akron, OH. He is an avid golfer and consults in the area of rubber industry textile reinforcement.



Steven Sablotsky
Founder/Principal Shareholder
Ocean Research Corporation, Ltd

Steven Sablotsky, 56, has extensive experience in the pharmaceutical business. He is the founder and principal shareholder of Ocean Research Corporation, Ltd. The company's mission is the discovery and development of compounds from the ocean that have desirable pharmacological activity. In 1987, Sablotsky founded Noven Pharmaceuticals, Inc., a public company involved in the development, manufacturing and marketing of advanced drug delivery products. Mr. Sablotsky served in various leadership roles within Noven, including as Chairman of the Board. In July 2001, Sablotsky resigned from the Noven Board to pursue other interests. Prior to founding Noven, he was employed at Key Pharmaceuticals, Inc., now a division of Schering Plough. While with Key Pharmaceuticals he invented a transdermal drug delivery system that has attained over \$2 billion in sales. Mr. Sablotsky is a director of Ortek Therapeutics, Inc. This company's business is in oral health care, currently focusing on the development and commercialization of products for the prevention and treatment of tooth sensitivity, and for the

prevention of tooth decay. Additionally, he has been involved in numerous public and private philanthropic activities.

Mr. Sablotsky holds a Masters Degree in Chemical Engineering from the University of Florida and a Bachelor of Science Degree in Chemistry from the University of Florida. Mr. Sablotsky has been issued numerous U.S. Patents and foreign patents. Mr. Sablotsky also serves as a member of the Advisory Board for the Department of Chemical Engineering at the University of Florida, and is a member of the American Institute of Chemical Engineers.



Larry Seward

Director, Research & Development, Global Pet Care
The Procter and Gamble Company

Larry started his career with Procter & Gamble in 1976 as an Engineer in Food Product Development. In 1979 he was appointed Group Leader and in 1984 was advanced to Section Head. After moving to the Family Care business, in 1998 he assumed the role of Associate Director and then in 2003 was named Director. He currently serves as Director of Technology for the Global Pet Care business and is the Recruiting Team Leader for the University of Florida.

During his career, Larry's numerous achievements include technical leadership for the development and market expansion of several product & package upgrades, line extensions and new product introductions. His work extends across brands such as: Pringles potato crisps, Duncan Hines cookies and cakes, Jif peanut butter, Charmin bath tissue, Bounty paper towels, Puffs and Tempo facial tissue, Iams, and Eukanuba pet food. He is a named inventor on patents which span both the food and paper products categories. Additionally, he has been recognized internally for his leadership in recruiting.

Larry is from Jacksonville, Florida where he graduated with a BS in Chemical Engineering from University of Florida in 1975.



James A. Trainham

Vice President – Strategic Energy Programs, Lead and Distinguished Fellow for RTI International, Distinguished Research Professor of Chemical & Biomolecular Engineering, NC State University and the Executive Director of the Research Triangle Solar Fuels Institute

Dr. Trainham's current focus is the development of solar fuels. Most recently (2009-2010), Trainham led the successful pilot demonstration of the first Solar Thermal Biomass gasifier as

Sundrop Fuels, Inc. Senior Vice President Engineering. Prior to joining Sundrop Fuels, Dr. Trainham was Vice President – Science and Technology for PPG Industries, Inc. from 2005-2009 in Pittsburgh, PA with global responsibility for new product and process innovation across all the businesses.

From 1979-2004 Dr. Trainham was employed by the DuPont Company where he led efforts that developed a number of new products and processes. His final assignment was CTO of Invista a \$7 billion enterprise.

He was elected to the National Academy of Engineering in 1997. He received the American Institute of Chemical Engineers Award in Chemical Engineering Practice in 2002; and was selected as “One of the 100 Chemical Engineers of the Modern Era” by the American Institute of Chemical Engineers in 2008.

Dr. Trainham received his B.S. and Ph.D. degrees in chemical engineering from the University of California, Berkeley, and an M.S. degree in chemical engineering from the University of Wisconsin, Madison.



Ken Wasko
Vice President, Business Operations & Quality
Zebra Technologies Corporation

As Vice President of Business Operations & Quality at Zebra Technologies Corporation, Ken is developing and leading a high accountability, effective, customer-focused organization. His vision for success is built upon driving cultural change defined by active, contributing participation of all team members. Focused strategic initiatives include business excellence in global supply chain, improved time to market for new product introduction, and the implementation of customer satisfaction methodology. Ken is responsible for global business operations with particular emphasis on our outsourced production, and oversees Zebra’s Sustaining Engineering, Sourcing, Cost Reduction, Quality, Compliance, New Product Introduction, Document Control and Service Quality teams. He also serves as Chairman of Zebra’s Technical Services Ltd. entity in Guangzhou, China.

Prior to joining Zebra, Ken held the position of Executive Vice President of Engineering and Operations with EF Johnson. In his 20 year tenure at Motorola from 1982 to 2002, he held a variety of increasingly responsible positions in engineering and operations, including General Manager of a \$700M business unit. He holds five U.S. patents in mechanical design and manufacturing technologies.

Ken's educational background is highlighted by a Bachelor of Science degree in Chemical Engineering awarded by the University of Florida in 1982. Ken and his wife Dee reside in Cary, Illinois.
