

Unlocking Panama:

A CENTURY OF INDUSTRIAL PROGRESS





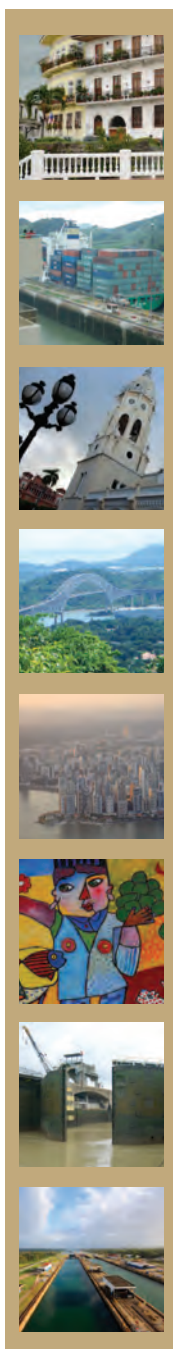


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Remember to eat breakfast
each day at the Hotel restaurant,
prior to the day's agenda.

AGENDA

WEDNESDAY, MARCH 21

- Throughout Day** **Arrival of GT Alumni**
- 5:30 p.m.** **Board Buses - Assemble in Lobby**
- 6:30 - 9:30 p.m.** **Alumni Welcome Event - Cocktail Party and Tour of the Panama Canal Museum in Old Town**
*Speakers include: College of Engineering Dean **Gary May** (EE '85), CEE Interim Chair **Ward O. Winer**, CEE EAB Chair **Chuck Huling** (CE '74), and Canal Museum Curator **Angeles Ramos Baquero***
- 9:30 p.m.** **Assemble to Board Buses for Return to Intercontinental Hotel**

THURSDAY, MARCH 22

- 8:00 - 9:00 a.m.** **Panama City Metro Project Presentation at Intercontinental**
Location: Bahía Salon, 2nd Floor
*Presentation by **Roberto Roy** (ME '69; MSIM '71), Executive Secretary of El Metro de Panama (<http://www.elmetrodepanama.com>)*
- 9:15 a.m.** **Board Buses - Assemble in Lobby**
- 9:30 a.m. - 1:00 p.m.** **Transport to Metro location for Metro Project Tour**
*Tour conducted by **Roberto Roy**; Lunch served on the bus*
- 1:00 - 4:00 p.m.** **City Tour**
Includes a stop at the Gehry Museum construction site with on board tour guides
- 6:30 p.m.** **Board Buses - Assemble in Lobby**
- 7:30 - 10:00 p.m.** **Dinner at Miraflores Locks**
*Speakers include: **Jose (Pepe) Barrios** (EE '71), Deputy Minister of the Canal Authority, and GT Provost **Rafael Bras***
- 10:00 p.m.** **Board Buses to Return to Intercontinental**



FRIDAY, MARCH 23

- | | |
|-------------------------------|--|
| 7:15 - 7:45 a.m. | "High Tech Solutions to Low Tech Problems in the Developing World" / Location: Bahía Salon, 2nd Floor
<i>Presentation by Dr. Jaehong Kim</i> |
| 8:00 a.m. | Board Buses - Assemble in Lobby |
| 9:00 a.m. - 12:00 p.m. | Tour of the Canal
<i>Miraflores Locks to Gamboa via Canal boat with members of the Panama Canal Authority</i> |
| 12:00 - 2:00 p.m. | Gamboa Rainforest and Lunch
<i>Keynote address from Stanley Heckadon-Moreno, Director of Communications and Public Programs and Coordinator of the Galeta Point Marine Laboratory at the Smithsonian Tropical Research Institute</i> |
| 3:00 p.m. - 6:30 p.m. | View Expansion Project
<i>Presentation by Construction Engineers from the Panama Canal Authority</i> |
| Evening | Free Dinner Period |

SATURDAY, MARCH 24

- | | |
|-------------------------------|--|
| Daytime | Free Day (Optional Tours available) |
| 6:00 p.m. | Board Buses - Assemble in Lobby |
| 6:30 p.m. - 10:30 p.m. | Final Evening Gala
<i>Speakers include: Georgia Tech President G.P. "Bud" Peterson, Panamanian Vice President Juan Carlos Varela, and keynote address by Dr. Marco Fernandez</i> |
| 10:30 - 12:00 a.m. | <i>Shuttle buses will transport guests back to the Intercontinental beginning at 10:30 p.m. Party continues until midnight. Shuttles will only available from 10:30 - 12:00 a.m.</i> |

WELCOME & INTRODUCTIONS

Welcome to the School of Civil and Environmental Engineering's 2012 Alumni Weekend in Panama. It is a pleasure to have you join us for this exciting event as this is the first year we have hosted an alumni weekend outside of the United States. The country of Panama has a very rich and diverse history, as well as a large population of Georgia Tech alumni. This event has afforded us the opportunity to work with fellow GT alumni in Latin America; and I cannot speak highly enough of their contributions to this tremendous effort and their dedication to Georgia Tech. It has been a privilege working with these individuals, all of whom are highlighted in this year's program. I am also excited to welcome Georgia Tech's top administration to this event and look forward to showcasing CEE's active and dedicated alumni base.

This unique event is a wonderful opportunity to experience the diverse and rich history of Panama with fellow GT alumni, family and friends. On behalf of the Advisory Board for the School of Civil and Environmental Engineering, I thank you for your participation and wish you a pleasant stay. Vamos a celebrarlo!

Best Regards,

Charles (Chuck) H. Huling, P.E.
Chair, CEE External Advisory Board
Executive in Residence, Strategic Energy Institute
Georgia Institute of Technology
Vice President, Georgia Power Company (*Retired*)

Chuck Huling, CE 1974, serves as Executive in Residence with Georgia Tech's Strategic Energy Institute (SEI), providing consulting expertise in energy matters. Prior to joining SEI in January 2011, Huling served as Vice President of Georgia Power's environmental affairs organization. In that position, he directed the company's environmental stewardship and compliance programs to meet or surpass all environmental laws and regulations. Huling retired from Georgia Power in December 2010, after serving thirty-six years with the company in a variety of positions within power plant construction, project management, corporate communications, regulatory affairs, marketing, consumer affairs, external affairs, and environmental affairs.



In addition to his appointment with the CEE EAB, Huling serves on the Metropolitan North Georgia Water Planning District Governing Board, and the advisory panels for the State of Georgia Small Business Environmental Assistance Program and the University of Georgia's College of Public Health. He is a member of Georgia Tech's Academy of Distinguished Engineering Alumni and a registered Professional Engineer in Georgia.

Civil and Environmental Engineering External Advisory Board

The External Advisory Board (EAB) of the School of Civil and Environmental Engineering (CEE) plays a primary role in advising the School Chair on matters relating to the expertise of its members. Individuals elected to serve on the Board assist the School in facilitating the highest quality of engineering education by promoting and advancing School initiatives among administration, alumni, government officials, business and industry leaders, and both local and global communities. By sharing their expertise, Board members play a vital role in helping CEE keep its educational and research programs attuned to the changing needs of the profession. The EAB is comprised of five standing committees including Nomination and Membership, Alumni Relations, Student Affairs and Preparedness, Communications and Public Relations, and Development.

The School's annual alumni events are planned and organized by the Alumni Relations committee. This committee is charged with developing plans and mechanisms to build stronger relationships between the School and its alumni base. A tremendous amount of time and attention is required in the planning and execution of these annual events, and the School would like to recognize its current Alumni Relations committee members: Committee Chair Sally Jabaley, Bill Calhoun, Jennie Lee Colosi, Paul Flower, Edmund Glover, Blake Peck, Lee Presley, Emilio Venegas, Frank Williams, and Frank Wyatt. Please take the time to thank these individuals for the amazing work they do on behalf of CEE.



CEE External Advisory Board, Fall 2011

EAB Alumni Relations Committee Leadership

Sally Jabaley, CE 1974, retired from Shell Oil in 2011 after seven years in a dual role as project assurance manager and learning advisor. In these roles, Jabaley oversaw a portfolio of deepwater offshore and unconventional oil sands and shales projects within the Western Hemisphere as well as the development and delivery of project management courses for Shell employees at the Shell Project Academy. Her extensive career includes offshore construction engineer with Chevron Oil; project engineer with Arco Oil and Gas; facilities engineer and offshore construction engineer for the Statfjord A & B concrete gravity platforms in the North Sea; oil and gas consultant for global offshore developments with Gaffney, Cline, and Associates in Dallas and Singapore; lead planning engineer with Mass Rapid Transit Corporation of Singapore; project manager for the production of inert nitrogen generation systems used in the food and beverage, petroleum, and heat treating industries; and project manager for design and installation of onshore gas compression plants with Production Operators Inc. and subsequently Schlumberger.



In addition to her position as chair of the CEE EAB Alumni Relations committee, Jabaley is former president of the Houston Georgia Tech Club and an emeritus member of the Georgia Tech Alumni Association Board of Trustees. Currently, she serves as chair of the Society of Petroleum Engineers Gulf Coast Section Project, Facilities, and Construction committee, organizing a number of special interest workshops for its membership base. As a result of this work, she earned the Gulf Coast North American Region Projects, Facilities, and Construction award in 2007. She was also named Georgia Institute of Technology Distinguished Engineering Alumna in 2008.

Emilio Venegas, CE 1976, serves as president of Venegas Construction Corporation located in Ponce, Puerto Rico. Venegas has served in this role since 1997 and is the sole owner of the company. His career began upon graduation from Georgia Tech as a project engineer with Venegas Construction. He served in this role for six years and was promoted to project manager and secretary of the corporation in 1982. In 1991, he was appointed president and chairman of the board.



In addition to his impressive tenure with Venegas Construction, Venegas earned his professional license in 1981 and has worked extensively throughout his career with numerous professional, corporate, and non-profit board of directors. He is an emeritus board member of Centros Sor Isolina Ferre, Colegio Ponceño, Puerto Rican Cement Corp., Eurobank, and the A.G.C. Puerto Rico Chapter. He is also a former board president of both Centros Sor Isolina Ferre and A.G.C. Currently, Venegas serves on the boards of Damas Foundation, Limbs for Haiti, the Sanson Group, as well as the School of Civil and Environmental Engineering at Georgia Tech.

School of Civil and Environmental Engineering

Ward O. Winer, Ph.D.

*Interim Chair, Civil and Environmental Engineering
Eugene C. Gwaltney, Jr. Chair Emeritus,
George W. Woodruff School of Mechanical Engineering
Georgia Institute of Technology*



Dr. Winer was chair of the George W. Woodruff School of Mechanical Engineering from 1988 through 2007. He earned his Ph.D. in Mechanical Engineering from the University of Michigan in 1961 and a Ph.D. in Physics from Cambridge University in England in 1964. He served on the faculty of mechanical engineering at the University of Michigan from 1963 to 1969 when he joined the faculty of mechanical engineering at the Georgia Institute of Technology. Dr. Winer has over 200 publications, is a Fellow of ASME, STLE, AAAS, ASEE and a member of the National Academy of Engineers. He is also a holder of several honors and awards, including the 1995 ASEE Benjamin Garver Lamme Award, the ASME Melville Medal, and the Tribology Gold Medal of the British Tribology Trust. He is also a recipient of the STLE International Award in 1996. In 2006 he was named an Honorary Member of ASME. His fields of interest include tribology, rheology, fluid mechanics and condition monitoring of mechanical systems as well as engineering education.

Dr. Winer is or has been on advisory boards for mechanical engineering programs at the University of Michigan, the University of Maryland, Carnegie Mellon University, and the University of California – Berkeley, Virginia Tech, and MIT. He is Chair of the ASME Foundation Board of Directors. He recently chaired a National Research Council Study to Benchmark the Competitiveness of the U.S. in Mechanical Engineering Basic Research. He served on the Steering Committee for the Committee on Recommendations for U.S. Army Basic Research (Member July 1982-June 1990; Chair June 1984-June 1987). Currently, he chairs the Engineering, Applied Science and Math Panel of the National Research Council Associateship Programs of the National Academy.



Reginald
DesRoches

Laurie
Somerville

Ruth
Gregory

Ellen
Cormack

Lisa
Tuttle

CEE STUDENTS WELCOME GLOBAL LEARNING

The School of Civil and Environmental Engineering has two very unique endowments that provide funding to CEE students who travel abroad for a specific learning goal. The Joe S. Mundy Global Learning Experience Endowment and the Nadia and Robert Tyson Endowment were created as a means to give selected CEE students a competitive edge in today's global marketplace through international learning.

These important endowments have allowed the following CEE students to participate in the 2012 Alumni Weekend in Panama. We believe they represent the qualities and characteristics that exemplify the future leaders of the civil and environmental engineering profession. Please take the time to introduce yourselves to the "next generation" of civil and environmental engineers from Georgia Tech.

Mundy-funded students:



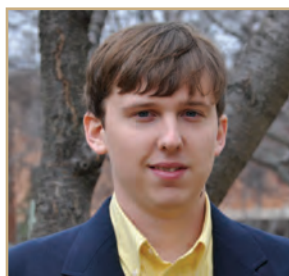
Angela C. Belfort
B.S. C.E. (2013)
Macon, Georgia

"My academic interests lie in the cultural aspects of engineering systems and new technologies. The American influence in Panama has had a tremendous impact on my life and has given me a deeper understanding of how engineering systems and technology affect people and communities. In Panama, I am excited to learn about the country's engineering systems - past, present and future."



Allison Jessie Clark
M.S. EnvE (2015)
Atlanta, Georgia

"I am very interested in learning about the current public transportation project underway in Panama City. Living in Atlanta, I see the need to encourage public transportation now and in the future. Learning about how other places deal with transit issues will help me better understand and explain what needs to happen here."



D. Samuel Harris
B.S. C.E. (2012)
Savannah, Georgia

"My focus is on transportation planning and design so this trip to Panama will enable me to see first hand how another country manages civil engineering projects in terms of standards and procedures. I've been accepted into the BS/MS program so I hope to make some time to document these standards/procedures for possible use in a thesis!"



David W. Murphy
Ph.D. C.E. (2012)
Hoover, Alabama

"As a doctoral student in environmental fluid mechanics, I'm studying the interaction between aquatic animals and their fluid environment. I am very intrigued by the tropical biodiversity promoted by Panama's unique hydrology with the Canal, many rivers, and both the Pacific and Caribbean coasts in such close proximity."

Tyson-funded student:



Jacob Tzegaegbe
M.S. C.E. (2013)
Lilburn, Georgia

"My research and career ambitions are focused on transportation infrastructure in developing nations and I have a deep interest in how cities develop, specifically looking at how transportation systems operate during this developmental phase."

Angeles Ramos Baquero, Ph.D.

*Executive Director and Chief Curator
Museo del Canal Interoceánico de Panamá*



Dr. Angeles Ramos Baquero currently serves as executive director and chief curator of the Museo del Canal Interoceánico de Panamá. In this role, she is responsible for gathering and organizing the museum collection and administering all its exhibition projects, including international projects. Since 1998, she has curated 130 exhibitions including permanent, temporary, and traveling exhibits, and she oversaw the first exhibition held at the Museo del Canal in 1997.

Dr. Baquero is the president of the local chapter of the International Council for Museums (ICOM) and has established important international links to facilitate the recognition of this institution among the international museum community. During her management, the Museo del Canal Interoceánico de Panamá became an active member of the International Council of Museums (ICOM), the American Associations of Museums (AAM), and affiliated with the Smithsonian Institution. These critical collaborations have established the Museo as an official program and exhibition partner with the Smithsonian Tropical Research Institute and the temporary exhibit of Panamanian Passages, organized by the Smithsonian Latino Center from 2009 to 2010.

Dr. Baquero earned a Ph.D. in Art History from the University of Seville and a Master's in Art History from the University of Navarra in the country of Spain.



Museo del Canal Interoceánico de Panamá

The Museo del Canal Interoceánico de Panamá is a permanent, non-profit institution that acquires, conserves, researches, interprets, diffuses and exhibits the testimonies of the History of Panama and its Canal for the education and delight of the public.

Besides being a necessary passage for Heads of State, diplomats and nationals that wish to understand the History of Panama and of the interoceanic route, the Museo del Canal Interoceánico is an essential reference of national and international tourism, offering to his public a center dedicated to culture and education, promoting the relations between the Republic of Panama and the World.

The Museo maintains high international standards of Museums, which allows the institution to be an active member of the International Council of Museums (ICOM), of the American Association of Museums (AAM), and to be the first non-American institution affiliated with the Smithsonian Institution.

Originally constructed in 1875 as the Gran Hotel of the city, the historic residence of the Museo was used as the French headquarters in 1881. It was recommissioned in 1912 as the main Post Office of Panama, and finally took on its current function in 1997.

Gary S. May, Ph.D.

*Professor and Dean
College of Engineering
Georgia Institute of Technology*



Dr. Gary S. May is dean of the College of Engineering at the Georgia Institute of Technology. In that capacity, he serves as the chief academic officer of the college and provides leadership to more than 400 faculty members and to nearly 12,000 students. The College of Engineering at Georgia Tech is the largest producer of engineering graduates in the United States. The most recent rankings issued by *U.S. News & World Report* rated Georgia Tech graduate programs in engineering fourth in the nation.

Dr. May's field of research is computer-aided manufacturing of integrated circuits. He has authored more than 200 technical publications, contributed to 15 books, and holds a patent on this topic. He has also participated in the acquisition of more than \$49 million in research funding, and he has graduated 18 Ph.D. students. His career is highlighted by numerous awards and honors, some of which include two international Best Paper Awards from the Institute of Electrical and Electronics Engineers (IEEE) Transactions on Semiconductor Manufacturing (1998 and 2000), the National Academy of Engineering Frontiers of Engineering Conference in 2000, Outstanding Minority Engineer Award from the American Society of Engineering Education in 2004, Mentor Award from the American Association for the Advancement of Science (AAAS) in 2006, and Outstanding Electrical Engineering Alumnus from the University of California at Berkeley in 2010. Dr. May is a Fellow of AAAS and the IEEE as well as a member of the National Advisory Board of the National Society of Black Engineers.

Dr. May created the Summer Undergraduate Research in Engineering/Science (SURE) program, for which he has been granted \$2.3M from the National Science Foundation (NSF). Through SURE, he annually hosts minority students to perform research at Georgia Tech to encourage them to pursue a graduate degree. Dr. May is also the creator/director of the Facilitating Academic Careers in Engineering and Science (FACES) program, for which he has been granted more than \$10M from NSF to double the number of African American Ph.D. recipients produced by Georgia Tech.

Dr. May earned his B.S. in electrical engineering from Georgia Tech and his M.S. and Ph.D. in electrical engineering and computer science from the University of California at Berkeley. A native of St. Louis, Missouri, Dr. May enjoys spending leisure time with his wife, LeShelle, and their daughters, Simone and Jordan (ages 16 and 14, respectively).



PANAMA CITY METRO PROJECT

The government of Panama has a major public transport modernization plan in the works: an electric urban rail project called El Metro de Panamá (the Panama Metro). This subway is the first of its kind in Central America, with a price tag of \$1.88 Billion. It is currently under construction using the latest tunneling technologies and machinery.

Modeled on public transport systems in Chile, Colombia, and Italy, the subway's first line will span 13.7 kilometers, from the city's working-class northern districts to the National Transportation Terminal in Albrook, in the capital's south side. This first line of the project has begun construction and is scheduled to be completed by the end of 2013. It will have 13 stops, some elevated, some underground, and 40,000 passengers are expected to be carried by the new rail system per hour.

A report generated by the UN's Development Program interviews locals about the project. "The shortening of travel times is the principal benefit mentioned by almost half of the interviewees. Other benefits mentioned are that the Metro will be a safer transport media, will give better quality of life to the user, will help with rush-hour jams, will bring modernization and development and will improve the country's image." Roberto Roy, executive director of the Panama Metro Authority, says construction is already at 15% completion and is moving along according to plans. Thus far, it has created 5,000 direct and indirect jobs, and the government has plans for a second line to be added by the end of the current administration's time in office, and eventually a third.

Roberto R. Roy

*Executive Secretary (Cabinet Level)
El Metro de Panamá*



Roberto R. Roy has served as executive secretary for the Metro de Panamá since 2009, appointed to this position by Panamanian President Ricardo Martinelli.

In this role, Mr. Roy manages implementation of the national government's flagship infrastructure project, the Panama Metro. Activities include planning and coordination of the entire design process, as well as construction, operations, and maintenance of the Metro Line 1. Upon completion, this project will provide the citizens of Panama with an efficient and public transportation system.

Roy holds more than 30 years of experience in construction, serving as president and founding partner of RM Engineering, one of Panama's most recognized companies in the construction industry. Throughout his career, he has served on numerous boards which are distinguished by their professional performance. Some of these include the Panama Canal Authority (APC); La Prensa newspaper; the Panama Construction Chamber (CAPAC); Caja de Ahorros, the largest Savings and Loan State bank in Panama; Bayano Cement Plant; Comité d'Honneur, Alliance Francaise; and the Secretario Nacional de Ciencia, Tecnología e Innovación (SENACYT). In addition to his organizational affiliations, Mr. Roy has been recognized with numerous awards for professional accomplishment. He is a member of the Order of Manuel Amador Guerrero, the highest honor bestowed to a civilian in the Republic of Panama for distinguished services to the Canal. In addition, he has been twice awarded the Galardón Canal de Panamá by the ACP; the William Ross Medal for services to the construction industry; the Florencio Icaza Medal Engineer of the Year by Panama's Society of Architects and Engineers (SPIA); and the Distinguished Engineering Alumnus award from the College of Engineering at Georgia Tech.

Mr. Roy holds a B.S. M.E. and an M.S. I.M. from the Georgia Institute of Technology as well as a BSCE from the Universidad Santa Maria La Antigua in Panama, where he graduated summa cum laude.

MIRAFLORES VISITORS CENTER

The Miraflores Visitors Center (CVM) is an expression of the permanent commitment of the Panama Canal Authority to strengthen the public's knowledge of the Canal.

Located on the east side of the Miraflores Locks, the CVM allows visitors to observe transiting vessels from a distance of only a few meters and learn first hand about the various operations of the Panama Canal, the history of its construction, its participation in the world markets, and the importance of its watershed.

The center features an ample, fully equipped theater, three observation terraces, two snack bars, a restaurant with panoramic view, a gift shop, and a hall for special events.



Four exhibition halls constitute the heart of the CVM. The exhibitions include historic pieces, interactive modules, video presentations, models of the Canal, and objects used in Canal operations.

The **History Hall** portrays the background, technological innovations, and sanitary initiatives that went hand in hand with the construction of the Canal. This exhibition hall honors the hundreds of men and women who made this achievement possible.

The **Hall of Water. Source of Life** emphasizes the importance of water, conservation of the environment and biodiversity, protection of the Canal Watershed, and the ACP's commitment to sustainable management of this resource and the interoceanic region.

The **Canal in Action** depicts in an amusing manner how the Canal operates and allows us the experience of being inside a navigation simulator and one of the lock culverts. A virtual ocean-to-ocean transit is also made possible through the use of a topographical model. This exhibition showcases ongoing Canal projects for improvement, modernization, and maintenance.

The **Canal in the World** provides information on the importance of the Canal to world trade; describes the trade routes it serves; and identifies its main users, the various types of vessels that transit the waterway, and the commodities they carry. In addition, it presents an overview of studies conducted in order to guarantee the future competitiveness of the Canal and the benefits to the Republic of Panama.

José Barrios Ng

*Deputy Administrator
Panama Canal Authority (ACP)*



José Barrios Ng earned a B.S. in electrical engineering from the Louisiana State University, an M.S. in electrical engineering from the Georgia Institute of Technology, and an M.S. in Engineering Economics from the University of California, Los Angeles (UCLA). He also completed graduate studies in Corporate Finances at the Massachusetts Institute of Technology and studies leading to a Ph.D. in Operations Research at UCLA.

In February 2002, Dr. Barrios joined the Panama Canal management team as chief financial officer with responsibilities over the financial planning and analysis, risk analysis, and contract management of the Canal organization, as well as the design of the policy and strategy for the continuous financial improvement needed to face the challenges of the new millennium. In March 2007, the Board of Directors appointed Barrios as deputy administrator as the ACP was being realigned to focus on its international relevance and the successful completion of the waterway expansion.

Before joining the ACP, José Barrios Ng served as executive vice president of Finance for Cable & Wireless Panamá, and chief financial and administrative officer of the beverage conglomerate Cervecería Nacional, S.A. His experience in international operations includes Central America, United States, Canada, China, Taiwan, and Japan. He also held executive positions in Esso Standard Oil Co. and has lectured within academia on the topics of business strategy, corporate finances, and engineering.

He is a member of the Rotary Northeast Club of Panama and a member of the board of several local business and professional organizations, such as the American Chamber of Commerce, the Panamanian Chinese Association and ALAFACE (Latin American Brewer Association). He served on the Board of Directors of the Panama Stock Exchange for 10 years and as Chairman from 2001 to 2004. Currently, he is chairman of the Board of Directors for the Universidad Latina de Panamá and the Universidad Americana.

Dr. Barrios is the recipient of numerous awards and honors including the distinguished National Financial Manager of the Year and the 2010 Government Official in the Republic of Panama. He lives in Panama with his wife, Veronica, and their three children.

Rafael L. Bras

*Provost and Vice President of Academic Affairs
Georgia Institute of Technology*



Rafael L. Bras is the provost and executive vice president for Academic Affairs at the Georgia Institute of Technology. He serves as professor in both the School of Civil and Environmental Engineering and the School of Earth and Atmospheric Sciences, and he is the first Georgia Tech faculty member to hold the K. Harrison Brown Family Chair.

Prior to his appointment at Tech, Bras was distinguished professor and dean of the Henry Samueli School of Engineering at the University of California, Irvine. For 32 years prior to joining UCI, he was a professor in the departments of Civil and Environmental Engineering and Earth, Atmospheric and Planetary Sciences at the Massachusetts Institute of Technology. At MIT, he also served as past faculty chair, former head of the Civil and Environmental Engineering department, and director of the Ralph M. Parsons Laboratory.

Bras has served as advisor to numerous government and private institutions, some of which include: Advisory Board, Engineering Directorate, National Science Foundation; Board of Atmospheric Sciences and Climate, National Research Council; Chairman, Earth Systems Sciences and Applications Committee of NASA and the NASA Advisory Committee; National Academy of Sciences Committee on New Orleans Regional Hurricane Protection Projects; and Director, American Geophysical Union (AGU).

An active participant in multiple professional organizations, Bras is past president of the Hydrology Section of AGU and is presently a member of its Board of Directors. Some of his many honors and awards include: an honorary degree from the University of Perugia in Italy, Hispanic Engineer National Achievement Award Hall of Fame member, NASA Public Service Medal, the Macelwane Medal of AGU, John Simon Guggenheim Fellowship, and Simon W. Freese Environmental Engineering Award. He is an elected member of the U.S. National Academy of Engineering and the Academy of Arts and Sciences of Puerto Rico, and a corresponding member of the Mexican National Academy of Engineering. He is also an elected Fellow of AGU, ASCE, AMS and AAAS.

Bras maintains an active international consulting practice, currently chairing a panel of experts that supervises the design and construction of a multibillion-dollar project to protect the city of Venice from floods. He has published two textbooks, more than 180 refereed journal publications, and several hundred other publications and presentations.

Jaehong Kim, Ph.D.

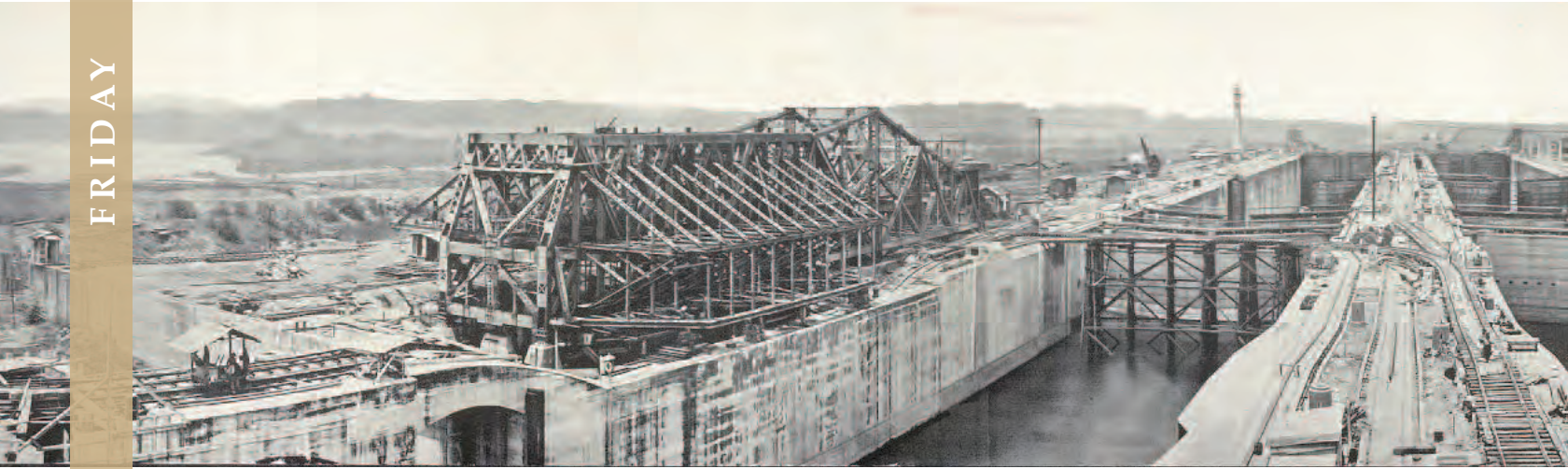
*Carlton S. Wilder Associate Professor
School of Civil and Environmental Engineering
Georgia Institute of Technology*



Dr. Jaehong Kim is the Carlton S. Wilder Associate Professor of Environmental Engineering in the School of Civil and Environmental Engineering at the Georgia Institute of Technology. Dr. Kim joined the faculty at Georgia Tech after completing his Ph.D. in 2002. He specializes in the following areas of research: 1) environmental implication and application of nanomaterials; 2) ozone and UV disinfection process optimization and design; and 3) high-pressure membrane process. His presentation on Friday morning is entitled “High Tech Solutions for Low Tech Problems in the Developing World”. In this presentation, Dr. Kim will discuss water problems in the developing world and his research towards developing new, sustainable technologies to address these issues. He will also highlight some of the School’s efforts in educating the next generation of leaders, discussing a recent trip he and a group of his students took to Nicaragua.

Dr. Kim is the recipient of numerous awards including the CETL/BP Junior Faculty Teaching Excellence Award from Georgia Tech (2007); the Top Environmental Technology Paper Award from Environmental Science & Technology Journal (2012); the Paul L. Busch Award from Water Environment Research Foundation (2009); the Excellence in Research Award from the School of CEE at Georgia Tech (2009); the Excellence in Review Award from Environmental Science & Technology (2009); and the Editor’s Award from the ASCE Journal of Environmental Engineering (2004). In addition, he currently serves as an associate editor for both Water Research and the ASCE Journal of Environmental Engineering. In his academic career, he has trained 5 postdoctoral researchers, and graduated 5 Ph.D. students and 7 M.S. students to date. He is actively supervising 2 postdoctoral students, 7 Ph.D. students, 1 M.S. student, and 1 undergraduate student. He also teaches an undergraduate water quality engineering course and a graduate physicochemical processes course at Georgia Tech.

Dr. Kim holds a B.S. and an M.S. degree from the School of Chemical and Biological Engineering at Seoul National University. He earned his Ph.D. in Environmental Engineering at the University of Illinois at Urbana-Champaign in 2002.



HISTORY OF THE PANAMA CANAL

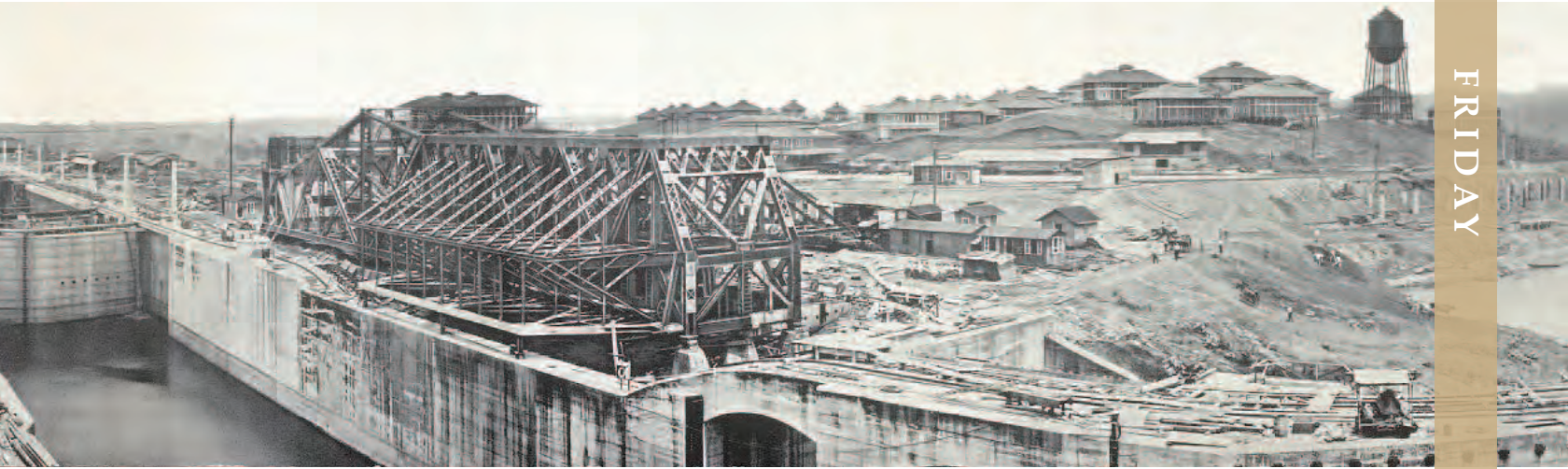
Although plans and surveys of various routes were developed by several countries, it was France that embarked on the first serious effort to build a canal. That undertaking, however, proved to be costly, both in money and human lives, and the project was abandoned in the late 19th century.

Through the vision and leadership of the United States President Theodore Roosevelt, the U.S. took over where the French left off and fought through difficult conditions to bring the great task to successful completion. During his visit to Panama in 1906, President Roosevelt addressed the Canal workforce stating, "This is one of the great works of the world. It is greater work than you, at the moment realize.... So you men here, in the future, each man of you, will have the right to feel, if he has done his duty and a little more than his duty right up to the handle in the work here on the Isthmus, that he has made his country his debtor; that he has done more than his full share in adding renown to the nation under whose flag this canal is being built."

The construction of the Canal was made possible by the strong leadership of American engineers and the determination of a young, but proud nation. By conquering mountains and impenetrable jungle; controlling malaria, yellow fever and other diseases; and overcoming the heat and humidity of tropical Panama, the U.S. was able to open a "Path Between the Seas" to world shipping on August 15, 1914.

During its stewardship of the waterway, the U.S. operated and maintained the Canal safely, efficiently and economically and provided for its defense. Partnering with the Republic of Panama during a 20-year transition period, the U.S. actively prepared the Canal's host country for its future management and operation in the 20th Century.

The United States' responsibility, and with it the American Era of the Panama Canal, concluded at noon, December 31, 1999, with the seamless transfer of control to Panama, thus solidifying the commitment of both countries to keep the Canal neutral and provide uninterrupted passage to ships of all the nations of the world.



General Facts

- First ground broken by the French: **January 1, 1880**
- Total Excavation by the French (cubic yards): **78,146,906**
- Excavation by the French useful to present Canal (cubic yards): **29,908,000**
- Amount of money spent by the French: **\$260,000,000**
- Number of lives lost during French control: **20,000**
- Amount United States paid the French for their rights and property: **\$40,000,000**
- Canal Zone acquired by U.S. from Panama by treaty: **February 23, 1904**
- Amount United States paid Panama for Canal Zone: **\$10,000,000**
- Rental paid by U.S. to Panama beginning in 1913 per annum: **\$250,000**
- Work began by the United States: **May 4, 1904**
- First ship through the Canal: **September 26, 1913**
- Date of official opening: **August 15, 1914**
- Name of first official ship to transit canal: **S.S. Ancon**
- Canal Zone in square miles: **436**
- Length of Canal from Atlantic to Pacific: **51 miles**
- Width of the Canal Zone: **10 miles**
- Time to transit Canal: **8-10 hours**
- Number of ships crossing daily: **40**
- Number of ships crossing each year: **12-15 thousand**
- Time of passage through locks: **3 hours**
- Maximum bottom width of the channel: **1000 feet**
- Minimum bottom width of the channel at Culebra Cut: **300 feet**
- Number of locks in pairs: **12**
- Locks, usable length: **1000 feet**
- Locks, usable width: **164 square miles**
- Amount of water filling each lock: **52 million gallons**
- Gatun Lake (area): **164 square miles**



GAMBOA RAINFOREST

Based on its particular geographical situation, the Republic of Panama has a larger diversity of wildlife than any other country in Central America. The country is a natural land bridge that joins two continents, making it home to many South American species as well as wildlife from North America. Today, 29% of Panama's territory is protected with 14 national parks, more than a dozen forestry reserves, and 10 wildlife refuges.

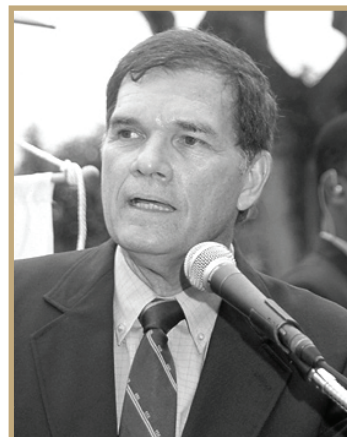
Panama houses almost 1,000 bird species, as well as 220 different types of mammals and 354 types of reptiles and amphibians. The country also has hundreds of islands and protects miles of coral reefs that are the habitat of a diverse marine life.

Located 30 minutes from Panama City, Gamboa is one of a handful of permanent Canal Zone townships, originally built to house employees of the Panama Canal and their dependents. It is located on a sharp bend of the Chagres River, the point which feeds Lake Gatun. Just south of Gamboa, Lake Gatun and the Chagres meet the Gaillard Cut where the Canal cuts through the Continental Divide. Though the town is closer to the Pacific side of Panama, its watershed is located on the Atlantic side. A single-lane iron and wood bridge crosses the Chagres and is the only road access to Gamboa.

Gamboa Rainforest Resort is a unique property near the Soberania National Park Rainforest. The resort is located on the banks of the Chagres River and the Panama Canal and offers an exotic retreat, far from the noise and bustle of the city. Colorful sights and natural wildlife make the Gamboa Rainforest Resort a one-of-a-kind experience for visitors.

Stanley Heckadon-Moreno, Ph.D.

*Director of Communications and Public Programs
Coordinator, Galeta Point Marine Laboratory,
Smithsonian Tropical Research Institute*



Stanley Heckadon-Moreno earned a B.A. in anthropology (1970) from Universidad de Los Andes, Bogotá and an M.A. (1973) and Ph.D. (1983) in sociology from the University of Essex, UK. After earning his doctoral degree, he became a research associate at the Smithsonian Tropical Research Institute (STRI), and during the 1970's and 1980's, he worked in community development and land tenure projects with peasant and indigenous communities in Panamá and Central America. He is an environmental pioneer who helped to set the foundations of national parks and the "Comarcas" or Indian territories of Panama.

From 1987 to 1990, he was senior social scientist at (CATIE), the Tropical Agronomic Center for Research and Teaching, in Costa Rica. In the wake of the U.S. invasion to Panama and the collapse of the military dictatorship, Dr. Heckadon was appointed Director General of the National Institute of Natural Renewable Resources, Panama's EPA. In this role, he helped bring back the U.S. Peace Corps which was expelled twenty years earlier.

Dr. Heckadon is a founder of Central American Commission for the Environment and Development (CCAD) and the Center for International Forestry Research (CIFOR) in Bogor, Indonesia. Prior to the turnover of the canal by the U.S. to Panama, he led the Panama Canal Watershed Natural Resources Monitoring Project, STRI's most complex applied research project. He has played a crucial role as a representative of the scientific community in the public debates held prior to the national referendum to upgrade the Panama Canal.

Since 2000, Dr. Heckadon has been responsible for the Galeta Point Marine Laboratory in Colón. His career includes numerous books, articles, conferences, and presentations about the environmental challenges and natural history of Panama and Central America. He has recently published the following books on the subject, "Naturalists on the Isthmus of Panama: A hundred years of natural history on the biological bridge of the Americas" (2004); and "A Creole from Bocas del Toro: the Story of Carlos Reid " (2011).

Stanley is a member of the Rotary Club. He is married to Sonia Martinelli Tono, an officer of the United Nations. They have two sons, Diego and Mónica, students at NYU.



PANAMA CANAL EXPANSION

The expansion of the Panama Canal is an enormous endeavor that will double the Canal's capacity by increasing both the volume and size of ships in transit by the year 2014. An investment of \$5.25 billion, the Panama Canal Expansion Program is the most comprehensive civil engineering project executed within the country over the last century.

Currently, the Canal includes two lanes, each with its own set of locks. The Canal expansion project will add a third lane of traffic to include the following integrated components:

- construction of two lock complexes—one on the Atlantic side and one on the Pacific side—each with three chambers that include three water-saving basins;
- excavation of a new access channel to link the 3rd set of locks on the Pacific side to the Culebra Cut, the waterway's narrowest section;
- widening and deepening of the Canal's Atlantic and Pacific entrances, Gatun Lake, and the Culebra Cut.

Former Panamanian President Martín Torrijos presented the Canal expansion plan in April, 2006 and it was approved in a national referendum in October of the same year. The project officially began on September 3, 2007. According to Torrijos, it is expected to make a tremendous impact on the nation's economy and to create demand along the U.S. Eastern seaboard for ports large enough to handle post-Panamax vessels. As of January, 2012, through-ports from Miami to New York are considering renovations including dredging, blasting, and bridge-raising. Currently, Norfolk, Virginia is the only Eastern U.S. port capable of handling these larger ships.



CANAL QUICK FACTS

CURRENT LOCKS

- Size: 1000' x 110' x 42'
- Locations:
 - Gatun Locks - 3 steps and 6 chambers
 - Pedro Miguel - 1 step and 2 chambers
 - Miraflores - 2 steps, 4 chambers
- Water Flow: By gravity, down and across chambers
- Panamax Ship: 965' x 106' x 39 ½'
- Maximum Cargo: 4400 TEUs – container ship
- Gates: 4 or more miter gates swing per chamber
- Water: 52 million gallons lost to sea per transit

NEW LOCKS

- Size: 1400' x 180' x 60'
- Locations:
 - Gatun East - 3 steps, 3 chambers, 9 basins
 - Miraflores West - 3 steps, 3 chambers, 9 basins
- Water Flow: By gravity, down and across holding basins
- Post Panamax Ship: 1200' x 160' x 50'
- Max Cargo: 12600 TEUs – container ship
- Gates: 2 ea 200' wide one piece rolling gates on tracks
- Water: 60% recycled, less lost to sea than now



Welcome to the Bristol Hotel

The School of Civil and Environmental Engineering is delighted to present the culminating event for its 2012 Alumni Weekend in Panama on Saturday evening at the Bristol Hotel. This unique evening presents the opportunity for Georgia Tech alumni from North America and Central America to engage over dinner and an exciting program featuring Georgia Tech President **G.P. “Bud” Peterson**, international macroeconomist **Marcos Fernandez**, and Panamanian Vice President **Juan Carlos Varela**. Several of Georgia Tech’s administrative leaders will also be in attendance including, First Lady **Valerie H. Peterson**, Provost **Rafael Bras**, and College of Engineering Dean **Gary May**.

The following pages of your program include biographies of the evening’s featured speakers. However, we will also distribute a smaller program for Saturday night upon your arrival at the Bristol Hotel. This program is intended for the evening event only and will include the biographies of each of the speakers.

G.P. “Bud” Peterson, Ph.D.

President

Georgia Institute of Technology



Dr. G. P. “Bud” Peterson became Georgia Tech’s 11th president on April 1, 2009. Under his leadership, the Tech community has developed and begun the implementation of a 25-year strategic plan that envisions what the Institute might be like on its 150th anniversary. Peterson came to Georgia Tech from the University of Colorado at Boulder, where he served as chancellor. Prior to that, he served as provost at Rensselaer Polytechnic Institute in New York. He served on the faculty and in leadership positions at Texas A&M University for 19 years. In addition, he has worked for NASA and the National Science Foundation.

Throughout his career, he has played an active role in helping to establish the national education and research agendas, serving on numerous industry, government, and academic task forces and committees. He is now serving as a member of the National Science Board, which oversees the NSF and advises the President and Congress on national policy related to science and engineering research and education.

In 2010, he was named as a member of the Department of Commerce National Advisory Council on Innovation and Entrepreneurship. In June 2011, he was named to the newly created Advanced Manufacturing Partnership steering committee.

President Peterson earned a bachelor’s degree in mechanical engineering, a second bachelor’s degree in mathematics, and a master’s degree in mechanical engineering, all from Kansas State University. He earned a Ph.D. in mechanical engineering from Texas A&M University. He and his wife, Val, have four adult children.

As the newest member of the Association of American Universities and a top ten public research university, Georgia Tech has outstanding programs in architecture, computing, engineering, liberal arts, management, and the sciences. With more than 21,000 students and nearly 130,000 living alumni who work in business, industry, and government throughout the world, Tech has become internationally recognized for the quality of its educational and research programs. The Institute celebrated its 125th anniversary in the fall of 2010.

Marco Fernández

Senior Partner

Investigación y Desarrollo, S.A (INDESA)



Marco Fernandez has more than three decades of experience in the analysis of economic information for business clients, government authorities and international agencies. He specializes in macroeconomic modeling and sector analysis.

In addition to his position as Senior Partner with Investigación y Desarrollo, S.A (INDESA), Mr. Fernandez co-publishes the monthly report on Panama by Global Source Partner, a 'think-tank' on macroeconomic analysis that is comprised of 20 countries. He serves on the Board of Directors for Banesco Group, a banking and insurance organization in Panama and the Dominican Republic; and Toyota (Panamá). He is also a Visiting Professor at INCAE (Central America)

He has recently published research on the dynamics of the public sector debt, dollarization in Panama, the economic model of the Panamanian service sector (Inter-American Development Bank) and he coordinated the economic team that produced the benefit-cost analysis of the Panama Canal expansion.

Juan Carlos Varela

*Vice President and Minister of Foreign Affairs
Republic of Panama*



Juan Carlos Varela R. was sworn in as Vice President of the Republic of Panama on July 1, 2009, bringing with him more than twenty years experience in the private sector. Varela served as executive vice president and on the board of directors for Varela Hermanos, S.A., one of Panama's leading businesses. With his strong social views and industry knowledge, Varela has been an advocate for projects supporting culture, education, folklore and the environment.

Vice President Varela is a founding member of the Arnulfista Party, renamed Panameñista Party in 2005. In 2008, he was selected as the Party's Presidential candidate. In early 2009, with the support of party members, Varela made a selfless and generous patriotic gesture by renouncing his presidential aspirations to support Presidential Candidate Ricardo Martinelli, with the agreement to implement a large part of his Party's Government Program. Varela currently serves as President of the Panameñista Party, reelected to this position in July 2011, with 97% of the votes.

Varela has played an active role in developing the government's social vision on important projects such as assistance for senior citizens, raising and improving minimum wage, social housing, and scholarships, among many others. As Minister of Foreign Affairs, he has accomplished a variety of relevant tasks including: improved relations with neighboring countries, global powers, key regions, and emerging countries; expansion and consolidation of the United Nations' Regional Center in Panama; adoption of the Central America Security Strategy and creation of the Central American Integration System (SICA) Regional Security Operations Centre; support of energy, infrastructure and commerce issues via the Council of Ministers for the Integration and Development of Mesoamerica project; negotiations for the association agreement between Central America and the European Union; creation of a regional humanitarian center to coordinate disaster relief for Latin America and the Caribbean; advocacy of the Trade Promotion Agreement with Panama in the U.S. House of Representatives and the Senate; as well as on-going political consult conventions to preserve and promote international interests and financial service provisions.

Vice President Varela attended Colegio Javier, directed by the Orden Compañía de Jesús. He also earned a B.S. in Industrial Engineering from the Georgia Institute of Technology. Varela is married to journalist Lorena Castillo, with whom he has three sons.

General Philip (Phil) Breedlove, CE 1977

*Vice Chief of Staff
United States Air Force*

Ms. Jennie Lee Colosi, PE, CE 1977

*President & Treasurer
ET&L Corporation*

Mr. Scott Emmons, PE, CE 1981

*Chief Engineer
Newton County Water & Sewage Authority*

Mr. Grosvenor (Rusty) Fish, III, CE 1990, CoM 2000

*Vice President of Engineering Operation
Sterling Infosystems*

Mr. Paul Flower, PE, CE 1968

*President/CEO
Woodward Design + Build*

Mr. Thomas (Tom) Gambino, PE, CE 1979

*President
Prime Engineering, Inc.*

Mr. Edmund C. Glover, PE, CE 1960

*Chairman/CEO (Retired)
Batson-Cook Company*

Mr. Ulysses Grady, Jr., PE, MCE, CE 1979, MSCE 1981

*Chief Civil Engineer
Pentagon 540*

Mr. Robert G. Graham, CE 1976

*President
Cone & Graham, Inc.*

Mr. John A. Grant, III, PE, RPLS, CE 1974

*Owner
Grant Engineering Company*

Mr. James (Jim) R. Hamilton, PE, CE 1977

President/CEO

Southern Civil Engineers, Inc.

Ms. Lauren Hildebrand, PE, IE 1982

Director of Utilities

Department of Public Works, Public Utilities Division

Mr. Douglas (Doug) R. Hooker, ME 1978, MS 1985

Executive Director/CEO

State Road and Tollway Authority

Mr. Charles (Chuck) H. Huling, PE, CE 1974

Executive in Residence

Georgia Tech Strategic Energy Institute

Selma (Sally) A. Jabaley, CE 1974

President

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Ms. Sharon Just, PE, CE 1989

President

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Mr. Gregory (Greg) J. Koch, PE, CE 1990, MSCE 1992

Managing Director, Global Water Stewardship

The Coca-Cola Company

Mr. Raymond (Ray) J. Lawing, PE, MSCE 1977

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AMEC Environment & Infrastructure

Mr. James Maughon, CE 1968

President

Hayes James & Associates

Mr. Michael (Mike) G. Messner, CE 1976

Partner

Seminole Capital Partners

Mr. Joseph (Joe) P. Palladi, PE, CE 1974

LCI Projects Engineer

Atlanta Regional Commission

Mr. Blake V. Peck, MSCE 1978

President and COO

McDonough Bolyard Peck Inc.

Mr. Andrew (Andy) Phelps, PE, CE 1976

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Mr. Wilson L. (Lee) Presley, CE 1979

Vice President, Nuclear Operations

CB & I

Mr. S. Brent Reid, CE 1982

President/CEO

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President

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Mr. William Randolph, CE 1961

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Mr. Richard C. (Rich) Tucker, CE 1964, MSCE 1965

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Mr. Ben Turnipseed, CE 1969

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Unlocking Panama Attendees • March 21 – March 24, 2012 • Panama City, Panama

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EATING OUT



Over \$30

Maito

Tel.: 391-1569 / 391-4657

Type: Restaurant

Cuisine: International

Payment: Cash, Clave, American Express, Visa, MasterCard

Hours: Monday-Friday: 12:00 p.m. - 2:30 p.m. and 7:00 p.m. - 10:30 p.m. / Saturday: 7:00 p.m. - 10:30 p.m.

Location: At the end of Calle 50, crossing cincuentenario, fourth house on the left - Coco del Mar - Panama City

La Casa del Marisco (Acha)

Tel.: 223-7755

Type: Restaurant

Cuisine: Spanish / Fish and Seafood

Means of Payment: Cash

Schedule:

Every day from 12:00 p.m. to 11:00 p.m.

Location: Calle Manuel Maria Icaza - Area Bancaria - Ciudad de Panamá

Chalet Suizo - 1985

Tel.: 263-8571 / 263-8541

Type: Restaurant

Cuisine: French / Swiss

Means of Payment: Cash, Visa, MasterCard

Schedule:

Monday-Friday from 12:00 p.m. to 11:00 p.m.

Saturday-Sunday from 6:00 p.m. to 11:00 p.m.

Location: Eusebio A. Morales Street - El Cangrejo - Panama City

Rausch

Tel.: 209-9600

Type: Restaurant / Bar

Cuisine: French / Modern

Means of Payment: Cash, Clave, American Express, Visa, MasterCard

Schedules:

Monday-Saturday from 12:00 p.m. to 11:30 p.m.

Brunch: Saturday from 11:30 a.m. to 3:30 p.m.

Location: Samuel Lewis and Gerardo Ortega, inside of the Hotel Esplendor - Area Bancaria - Panama City

Manolo Caracol

Tel.: 228-4640 / 228-9479

Type: Restaurant

Cuisine: Spanish / Portuguese

Means of Payment: Cash, American Express, Visa, MasterCard

Schedule:

Every day from 12:00 p.m. to 3:00 p.m. and 6:30 p.m. to 10:00 p.m.

Closed Saturday at noon.

Location: Central Avenue and 3rd Street - Casco Antiguo – Panama City

Puerta de Tierra Steak House

Tel.: 377-7747 / 228-6595

Type: Restaurant

Cuisine: International

Means of Payment: Cash, Clave, American Express, Visa, MasterCard

Schedules:

Sunday-Thursday From 12:00 p.m. to 11:00 p.m.

Friday and Saturday de 12:00 p.m. a 12:00 a.m.

Location: Central Avenue with 9 street, Montefiore building- Casco Antiguo - Panama City

Casuale

Tel.: 394-8105

Type: Restaurant

Cuisine: International / Gourmet

Means of Payment: Cash, Clave, American Express, Visa, MasterCard

Schedules:

Monday-Saturday from 12:00 p.m. to 3:30 p.m. and 7:00 p.m. to 11:00 p.m.

Location: 49 Street and Federico Boyd - Bella Vista – Panama City

Luna

Tel.: 263-5862 / 264-5862

Type: Restaurant

Cuisine: Creative

Means of Payment: Cash, American Express, Visa, MasterCard

Schedule:

Monday-Saturday from 12:00 p.m. to 2:30 p.m. and 6:00 p.m. to 11:00 p.m.

Location: Centro Comercial La Florida - Marbella - Ciudad de Panamá

Amuka

Tel.: 398-0568 / 398-0569

Type: Restaurant / Bar

Cuisine: Fusion / International

Means of Payment: Cash, American Express, Visa, MasterCard

Schedules:

Every day from 12:00 p.m. to 12:00 a.m.

Location: 56 Street and Abel Bravo - Obarrio – Panama City

From \$20 - \$30

Roma Antica

Tel.: 263-1967

Type: Restaurant

Cuisine: Italian

Means of Payment: Cash, Clave, Visa, American Express, MasterCard

Schedule:

Tuesday-Saturday from 12:00 p.m. to 3:30 p.m. and 7:00 p.m. to 10:30 p.m.

Sunday from 12:00 p.m. to 7:00 p.m.

Location: Calle 51, Casa No. 18 - Area Bancaria - Ciudad de Panamá



Fenicia

Tel.: 269-0187 / 269-0188

Type: Restaurant

Cuisine: Lebanese / International

Means of Payment: Cash, Clave, American Express, Visa, MasterCard

Schedules:

Sunday-Thursday from 11:30 a.m. to 1:00 a.m.

Friday-Saturday from 11:30 a.m. to 3:00 a.m.

Web: www.restaurantefenicia.com/

Location: Campo Alegre building, Via España and Manuel Ma. Icaza Street, in front of Trsatlantico Bank- Area Bancaria –Panama City

Casa Blanca

Tel.: 212-0040

Type: Restaurant

Cuisine: International

Means of Payment: Cash, American Express, Visa, MasterCard

Schedules:

Every day from 10:00 a.m. to 12:00 a.m.

Location: Plaza Bolivar and 4 Street, San Felipe - Casco Antiguo – Panama City

Las Clementinas

Tel.: 228-7613 / 228-7617

Type: Restaurant

Cuisine: Panamanian / Creative

Means of Payment: Cash, Clave, Visa, MasterCard

Schedules:

Tuesday-Saturday from 7:00 a.m. to 11:00 p.m.

Sunday from 7:00 a.m. to 4:00 p.m.

Location: 11 Street and B Avenue - Casco Antiguo – Panama City

From \$12 - \$20

Beirut

Tel.: 214-3815

Type: Restaurant

Cuisine: Lebanese / India

Means of Payment: Cash, Clave, American Express, Visa, MasterCard

Schedules:

Every day from 12:00 p.m. to 12:00 a.m.

Web: www.beirutpanama.com

Location: 52 Street, in front of Marriott Hotel- Area Bancaria – Panama City

Orígenes

Tel.: 393-2416 / 393-2419

Type: Restaurant / Bar

Cuisine: Spanish/ Mediterranean

Means of Payment: Cash, Clave, American Express, Visa, MasterCard

Schedules:

Monday-Friday from 12:00 p.m. to 3:00 p.m. and 6:00 p.m. to 10:30 p.m.

Saturday from 6:00 p.m. to 11:30 p.m.

Sunday from 12:00 p.m. to 7:30 p.m.

Tasca: 6:00 p.m. to 12:00 a.m. from Thursday-Saturday until 2:00 a.m.

Web: www.origenespanama.com

Location: 58 Street- Obarrio – Panama City



SHOPPING

Albrook Mall



This indoor mall offers a wide variety of discount stores and boutiques, as well as a food court featuring Wendy's, Pizza Hut, and Kentucky Fried Chicken. Visit Little Kids for juvenile wear, Enigma for unique adult clothing, and Bijoux Ternier for exquisite jewelry. The mall has 100,000 m² of retail on two floors, with spectacular entertainment areas for the whole family including stores, cinemas, ice skating rink, and more. It is centrally air-conditioned. *Open Monday-Saturday: 10 am – 9pm and Sunday: 11am – 8pm.*
Visit: <http://www.albrookmall.com/>.

Metro Mall



Located about 15 miles from the city center, near Tocumen International Airport, the contemporary Metro Mall is one of the region's leading shopping centers. Major department stores such as El Titan, El Machetazo, Steven's and El Costo, as well as over 200 specialty shops, ensure that the latest trends in fashion are just a rack away. The mall also features a 10-screen cinema and a food court.

Free shuttle service for passengers in transit between Metromall and the Tocumen Airport. Shuttle available Monday -Sunday, leaving the airport every 30 minutes from 10am -6 pm. Transit passengers can arrive at the Metromall for shopping and return to the airport in time to catch a connecting flight. This service also provides a free shuttle circuit from hotels in the metropolitan area to the Multiplaza and the Metro Mall, offering 2 malls with more than 600 shops with the best brands and prices. *Opens daily 10am - 8pm.*
Visit: <http://www.panamashoppingmall.com/>.

Multicentro Mall



Multicentro is a unique place in the heart of Panama City where you will find an unparalleled collection of fashion, food, entertainment and lifestyle. With four levels of national and international stores, Multicentro offers the best of the world in one place. It offers central air conditioning, a supermarket, cafes, cinemas, a casino, and a Hard Rock Cafe. *Open Monday-Saturday from 10:00am – 9:00pm and Sunday from 11:00am – 8:00pm.*

MultiPlaza Pacific



This expansive, climate-controlled indoor mall, located in the Punta Pacifica area, features a treasure-trove of specialty and boutique shops to suit just about any price-point and taste. Features 280 stores, including department stores, luxury stores, modern cinemas, several restaurants, and a supermarket. *Open Monday-Saturday 10am-8pm. Sunday 11am-7pm. Visit: <http://www.multipiazza.com/visitenosPAN#>.*

Get the exclusive TOURIST DISCOUNT CARD, offering thousands of discounts/benefits in more than 300 stores at Multiplaza Pacific and Metromall. Apply free upon presenting your passport at the Information Centers at both Malls and the Tocumen Airport. The card is also distributed through hotels and tour operators in Panama.

HOTEL & TAXIS

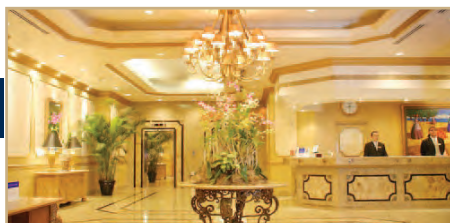
Taxis



One of the easiest ways to get around is by taxi, and they are plentiful throughout Panama City. Taxis do not have a meter. Fares are set by the authorities and are determined based on the section of the city you are in and the section you are going to, with a surcharge for each additional person. The cab driver should have a table that will show the costs for the fare. They are required to show it to you, if you ask. It is recommended that you negotiate your final fare prior to departure. Fares are around \$1.25 for travel within one zone, with the longest fares within the City at about \$5. The surcharge for additional passengers should be about \$.50/person. There's also a small surcharge if you call a cab (\$.40 as of 2010). A taxi to or from the international airport typically costs \$25 plus tolls. *Cab drivers do not expect tips, and they may pick up additional passengers along the way.* Cabs can also be rented for the day at a set fare, around \$20-\$25. In this case, cab drivers will expect a little extra (tip and/or lunch).

Panama VIP Transportation: *For reservations, call (507) 393-8708; Cell (507) 6618-5316*
E-mail: panama@panamaviptransportation.com

Intercontinental Miramar Panama



Address & Phone:

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Phone: 507-206-8888

Concierge:

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To contact Deniris via phone, call the main hotel number above.

The background of the top section is a photograph of several large cargo ships in a canal, likely the Panama Canal, under a hazy sky. A horizontal gold-colored banner is superimposed over the middle of the image, containing the text 'Thank you' in a white, elegant script font.

Thank you

The School of Civil and Environmental Engineering at the Georgia Institute of Technology would like to thank the following individuals for their assistance in making the 2012 CEE Alumni event in Panama such a tremendous success. Please take a moment during the weekend to let them know how much their efforts are appreciated.

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