



# Monthly Update to the Select Committee on Florida Polytechnic University

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Tom Kuntz, Chair

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by

Ava L. Parker, Chief Operating Officer

This report is submitted to fulfill monthly reporting requirements by the Board of Governors Select Committee on Florida Polytechnic University. These reports will include information about actions related to SACS accreditation, student recruitment and admissions, faculty hiring, curriculum development, construction, budgeting, and other pertinent information.

# Monthly Update to the Board of Governors

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## General Issues

**Mission Statement:** *The mission of Florida Polytechnic University is to prepare 21<sup>st</sup> century learners in advanced fields of science, technology, engineering, and mathematics (STEM) to become innovative problem-solvers and high-tech professionals through interdisciplinary teaching, leading –edge research, and collaborative local, regional and global partnerships.*

This mission was revised slightly and approved by the BOT on May 15, 2014. The purpose of the revision was not to shift away from, or change the primary focus of our institution. Rather, the revision makes it easier to assess and measure our institutional goals, objectives and outcomes. A change in the mission statement is appropriate at this point because the institution has grown and we have additional faculty and administrators on board to assist with the mission. Additionally, it is important to note that we will review the mission annually as part of developing the BOG Work Plan.

**Vision Statement:** *Florida Polytechnic University aspires to be a nationally and internationally recognized institution of higher learning serving the State by preparing students to lead Florida’s high-tech industries. The student learning experience will focus on practical and applied research, internships with industry partners, and hands-on leadership opportunities delivered by distinguished faculty who excel in their fields.*

### Legislative Benchmarks

Florida Poly is working to meet Legislative benchmarks set for December 31, 2016 including student enrollment, facilities construction and accreditation by the Southern Association of Colleges and Schools (SACS).

### Overview

Florida Polytechnic University was created when Governor Rick Scott signed SB 1994 on April 20, 2012. The STEM focused University has a College of Innovation and Technology and a College of Engineering, each offering three undergraduate degrees and three graduate degrees. Each degree has several concentrations from which students can choose to study. Concentrations such as Cloud Virtualization, Health Informatics and Nanotechnology are emerging fields and companies in those areas need the graduates that Florida Poly will produce.

The University will open in August 2014 with 500 students and plans to have a student population of approximately 5,000 students at maturity. The inaugural class will include freshmen, transfer and graduate students.

The University has an operating budget of just over \$33 million of which \$5 million comes from a phosphate industry fee which funds a phosphate research group that is now a part of Florida Poly.

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## Strategic Plan

In February 2014, the 2014-2017 Strategic Plan was approved by the University's Board of Trustees. The strategic plan was adjusted as a part of the work plan development process. It is part of an annual effort to ensure that the University continues to be aligned with the needs of our region, state and nation. This kind of systematic planning process ensures that our strategic plan is integrated with the budget and with institutional effectiveness plans. These changes will be presented to the Board of Trustees on June 10, 2014 for approval. The plan identifies five major goals, as well as core values and objectives that will enable the University to fulfill its mission through the inaugural phase. The details of this plan will be presented to the BOG during the Work Plan presentation in June.

## Board of Trustees

Five members of the Florida Polytechnic University Board of Trustees attended the Board of Governors' Trustee Summit in Miami, Florida. University trustees who attended the workshop were Board Chairman Rob Gidel and trustees Frank Martin, Dr. Sandra Featherman, Kevin Hyman and Dr. Rob MacCuspie.

Trustee Chairman Rob Gidel and Trustee Frank Martin attended the Board of Governors January 2014 meeting at which the BOG Select Committee on Florida Polytechnic University heard an update on progress at the University.

Chairman Rob Gidel spoke to the Senate's Ethics and Elections Committee regarding confirmation of all trustees. Subsequently, the Florida Senate voted unanimously to confirm all members of the Board.

During the 2014 Legislative session, all members of Florida Polytechnic's Board of Trustees were confirmed. In addition, Governor Rick Scott appointed Thomas O'Malley to the Board to replace Kevin Hyman.

## Presidential Search

On April 14, 2014, the Florida Polytechnic University Board of Trustees voted unanimously to adopt the recommendation of its Presidential Search Committee and selected Dr. Randy Avent to be the Founding President of the University. His appointment is subject to confirmation by the State University System Board of Governors and negotiation of his contract.

Dr. Avent is currently the Associate Vice Chancellor of Research Development at NC State, a professor of Computer Science and is the founding director of the university's Data Science Institute.

Prior to joining NC State, Dr. Avent served as the Chief Scientist in the Office of Basic Research in the Office of the Assistant Secretary of Defense for Research and Engineering where he oversaw scientific programs and developed strategic plans for future science and technology investments.

From 1986-2009, Dr. Avent worked in a variety of capacities with the Massachusetts Institute of Technology (MIT) Lincoln Laboratory. Notably, he served as the Associate Chief Technology Officer, as the Founding Leader of both the Airborne Communications Laboratory and the Advanced Decision

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Theory Laboratory, and as the Associate Leader of the Adaptive Beamforming Laboratory. While at MIT, Dr. Avent helped to create and execute strategic initiatives that aligned MIT with emerging application- and curiosity-driven research opportunities.

He received his B.S. degree in Zoology from the University of North Carolina, Chapel Hill. He also received an M.S. degree from North Carolina State University in Electrical Engineering, and M.S. and Ph.D. degrees from the University of North Carolina, Chapel Hill in Biomedical Engineering and Mathematics. Dr. Avent is also a graduate of the Boston Executive Program at MIT's Sloan School of Management.

# **Criterion A**

## **Initial Development of New STEM Programs**

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## Florida Polytechnic University Faculty

The University's original forecast of faculty needs was based on enrollment of 500 students with approximately 50% freshmen and 50% transfer students. The actual breakdown of admitted students is about 80% freshmen and 20% transfers. As is the case with virtually all universities, the average lower level class size (freshmen and sophomores) is larger than the average upper level class size (juniors and seniors). Therefore we project the need for fewer sections and consequently fewer faculty. We have recalculated the number of full-time faculty needed to be 25 for Fall 2014.

As of June 1, 2014 we have hired 23 full-time faculty who are either on-board now or will report prior to August 15, 2014. We have interviewed over a hundred potential candidates for adjunct faculty positions in all subject areas. Of those interviewed we selected 15 adjunct faculty. In addition, we are working with nearby industry partners, universities, and colleges to identify additional people to fill adjunct positions.

The hiring of adjunct faculty is progressing well. We have hired ten as of this report and we are in the process of interviewing many others.

A list of key faculty under contract is provided in Table 4. In addition, there are nine separate faculty selection processes underway at this time.

Curriculum along with a full justification of each degree program has been developed and approved by the Academic Affairs Committee and full Board of Trustees. The New Degree Program Templates were sent to the Board of Governors staff on February 3, 2014 in the following areas. All degree programs have been accepted and entered into the SUS Academic Degree Inventory. In addition, those degree programs are currently being reviewed by the Articulation Coordinating Committee.

**Electrical Engineering** – Control Systems, Digital and Hybrid Systems, Electrodynamics, Magnetics, and Semiconductors

**Computer Engineering** – Digital Logic Design, Embedded System Design and Machine Intelligence

**Mechanical and Industrial Engineering** – Nanotechnology, Multifunctional Materials, Motion Intelligence and Geometric Dimensioning & Tolerancing

**Advanced Technology** – Big Data Analytics, Cloud Virtualization, and Health Informatics

**Science and Technology Management** – Logistics and Materials & Supply Chain

**Computer Science and Information Technology** – Cyber Gaming and Information Assurance & Cyber Security

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**Table 4: Florida Polytechnic University Faculty by Degree Programs**

Faculty Member Name	Degree	Concentrations
Robert I. MacCuspie, Ph.D.	Industrial Engineering	Nanotechnology and Multi-Functional Materials
Ryan Integlia, Ph.D.	Electrical Engineering	Digital Systems and Electrodynamics
	Advanced Technology	Health Informatics
Jorge Vargas, Ph.D.	Electrical Engineering	Magnetics and Semiconductors
Harvey Hyman, Ph.D.	Advanced Technology	Big Data Analytics and Cloud Virtualization
Susan LeFrancois, Ph.D.	Innovation and Technology	Life Sciences: emphasis on Chemistry (general education)
Anas Salah Eddin, Ph.D.	Computer Science & Information Technology	Cyber Security
Elhami Nasr, Ph.D.	Mechanical & Industrial Engineering	Engineering Management and Motion Intelligence
Jim Dewey	Mechanical & Industrial Engineering	Motion Intelligence
Sesha Srinivasan, Ph.D.	Mechanical & Industrial Engineering	Nanotechnology and Physics
Chris Yakmyshyn	Electrical Engineering	Electrical Engineering
Christina Drake	Electrical Engineering	Semi & Electrodynamics

In addition, the full-time General Education faculty are:

Faculty Member Name	Concentration
Victoria Astley, Ph.D.	Mathematics and Physics
James Byrd, Ph.D.	Chemistry



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Wylie Lenz, Ph.D.	English
Patrick Luck, Ph.D.	History
Amanda Bruce	History
Heather Freeman, Ph.D.	English
Jaspreet Dhau, Ph.D.	Chemistry and Business
Jessica Hobbs Zbeida, Ph.D.	English
Jared Bunn, Ph.D.	Mathematics
Svetlana Tyutina, Ph.D.	Liberal Arts
Margaret MacDonald, Ph.D.	History
Kim MunJu, Ph.D.	Mathematics`

Florida Poly professors Ryan Integlia, Ph.D. and Robert I. MacCuspie, Ph.D. along with Director of Government Relations Rick Maxey were among representatives from Florida's 12 public universities who participated in the first C.W. Bill Young Research Day of the State University System of Florida at the U.S. Capitol in Washington, D.C.



Professors Rob MacCuspie, Ph.D. (pictured right) and Ryan Integlia, Ph.D. (pictured center) discuss Florida Poly's research capabilities with John Frazier Glenn (pictured left), Principle Assistant for Research and Technology, U.S. Army Medical Research and Materiel Command

The one-day workshop with key defense leaders was the first of its kind for the State University System (SUS) of Florida and served as a tremendous opportunity for Florida Poly to learn first-hand about the research needs of the DoD, one of the federal government's largest funders of research grants.

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They established valuable relationships with some of the DoD's top research administrators, several of whom expressed serious interest in partnering with the University. They also got a good sense of what the DoD's needs are, and that will provide the faculty the opportunity to focus their research proposals on topics and programs that increase Florida Poly's competitiveness for funding.

Attendees heard from key research leaders from the Army, Navy, Air Force, Intelligence Advanced Research Projects Agency (IARPA) and the Defense Advanced Research Projects Agency (DARPA) on the military's research priorities, challenges, budgets and latest initiatives. Potential areas of research need ranged from the development of remote sensing applications to understanding environmental factors for communicable diseases in underserved communities.

Florida Poly is offering programs that align well with the specific mission needs identified by the DoD, including nanotechnology, big data, health informatics and mechanical and electrical engineering" MacCusprie said. As a new university, Florida Poly has the nimbleness to design its curriculum and research programs so that they are responsive to the needs of the DoD and other major research funders as they change and evolve.

**Robert I. MacCusprie, Ph.D.**, a research chemist at the National Institute of Standards and Technology has been named the first faculty member at Florida Polytechnic University. He has more than seven years of experience working in government national labs and has held research positions at the Air Force Research Laboratory and the U.S. Food and Drug Administration.

In addition to his research experience, MacCusprie also mentors undergraduate students. He will be instrumental in developing curriculum and establishing a Center for Nanotechnology to which he has been appointed director.

As the first faculty member of Florida Polytechnic University, he has outlined three major goals:

1. To develop a cutting-edge curriculum in the College of Engineering, including a track focused on Nanotechnology and Multifunctional Materials. He also plans on incorporating student leadership development as a key part of their education.
2. To develop partnerships with key stakeholders, including local companies and government agencies and to partner in creative ways to benefit stakeholders, students and Florida Polytechnic University. Potential ideas might include internship programs, collaborative research, externship programs, using adjunct instructors and shared research resources.
3. To provide students with a high quality education in a way that they can relate it to the real world in their future jobs.

MacCusprie earned a B.S. in Chemistry and Molecular Biology and Microbiology from the University of Central Florida and his Ph.D. in Nanotechnology and Materials Chemistry from the Graduate Center of the City University of New York.

**Dr. Ryan Integlia** joins Florida Poly as an Assistant Professor working in Health Informatics, Digital Systems and Electrodynamics. He received his Ph.D. in electrical and computer engineering through the Rutgers-Princeton Nanotechnology for Clean Energy program of the National Science Foundation's

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Integrative Graduate Education and Research Traineeship, exploring micro and nano photonic structures for dispersion control and applications. His M.S. in civil and environmental engineering was obtained with the support of the Center for Advanced Infrastructure and Technology fellowship program and he received a B.S. in electrical and computer engineering from Rutgers University. His industry experience includes work with IBM and Siemens Corporate Research.

The initiatives he has established have received recognition or awards from many organizations, including the Clinton Global Initiative University, the UN Foundation in conjunction with Mashable, Princeton University's Tiger Launch, National Science Foundation's Grand Challenge program, MIT Clean Energy Prize, Princeton University's Green Business Plan program and Rutgers University. The majority of these awards were received through the non-profit organization em[POWER] Energy Group, which he co-founded with the mission of helping communities living in or dependent on waste dumps by merging community infrastructure with renewable resource processing and alternative energy systems. He also serves as an adviser and co-founder for multiple nonprofits and for-profits, in efforts related to e-learning, telemedicine, information management, community development, public health, duckweed industrialization, poverty alleviation and others.

**Dr. Jorge Vargas** has been hired as the Assistant Professor of Electrical Engineering (with emphasis on Health Informatics, Digital Systems, and Electrodynamics.) Since 2006, Vargas has been a full-time professor at the Universidad del Turabo in Puerto Rico where he has contributed to the development of new educational programs of study for engineering students. He has taught at the Universidad del Turabo in Puerto Rico and at Florida International University. Dr. Vargas has taught courses in electrical circuits, electronics, logic design, RF design, antennas and electromagnetism.

Dr. Vargas has eight years of experience working closely with the Director of the Future Aerospace Science and Technology Center, Dr. Grover Larkins and Associate Director Research Programs, Dr. Yuriy Vlasov on projects that include RF microwave design, characterization and development of high temperature superconductors and MEMS. His current research continues in the area of Spintronic-based radiation sensors with a special focus on assembling novel thin-film radiation sensors based on Giant Magnetoresistance (GMR) and Tunnel Magnetoresistance (TMR) phenomena and thick-film radiation sensors based on magnetic oxide thick films intended for energy systems. Dr. Vargas received his B.S., M.S. and Ph.D. in Electrical Engineering from Florida International University.

**Dr. Harvey Hyman** comes to Florida Poly from faculty at Georgia Southern University where he taught Systems Acquisition, IT Issues and Management. He is also the co-inventor of a revolutionary method for information retrieval, *Retrivika™*, that currently has a patent pending and would be a direct contribution to the Cloud Virtualization and Big Data Analytics offered at the University.

Dr. Hyman has been invited to speak at the National Institute for Standards and Technology (NIST) for three years in a row and has been included in the proceedings each time. His career in technology and operations management has produced four software products so far, three patent filings, and several re-engineering and infrastructure development projects.

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He has earned a B.B.A. from Florida International University, a law degree from the University of Miami, School of Law, an MBA from Charleston Southern University and a PhD from the University of South Florida, College of Business in Information Systems and Decision Sciences.

**Dr. Susan LeFrancois** joins Florida Polytechnic University as an assistant professor from FTSI where she holds the position of Director of Quality Assurance & Regulatory Affairs. FTSI is a contract gamma sterilizer that focuses on the sterilization of medical devices and tissue. She will work on developing curriculum and course descriptions in the College of Innovation and Technology.

Susan has a strong technical background related to the medical device and healthcare industries and has also taught in the University of South Florida's Industrial and Management Systems Engineering Department. She is a member of the Association for the Advancement of Medical Instrumentation and is a former member of the International Society on Toxinology and the Society for Neuroscience.

**Dr. Anas Salah Eddin** graduated with a Doctorate in Electrical Engineering and a Masters and Bachelors in Biomedical Engineering from Florida International University (FIU) in December 2013. Salas served as an Invited Lecturer in the Department of Electrical and Computer Engineering at FIU. He also was a Graduate Research Trainee at McGill University's Neurological Institute and Hospital. Prior to his work at McGill, Dr. Salah Eddin was a research assistant at FIU's Center for Advanced Technology and Education.

He earned the Best Paper Award (2013) at The 6th International IEEE EMBS Neural Engineering Conference, Outstanding Graduate Award (2009) from Florida International University, College of Engineering and Computing, and a Fulbright Scholarship (2007-2009) to the United States Department of State, Bureau of Educational and Cultural Affairs.

**Dr. Elhami Nasr** has more than 25 years of industry and academic experience. He developed and taught many undergraduate and graduate courses in Engineering and Engineering Management, Advanced Control Systems and Computer applications, using an interdisciplinary, integrative and innovative approach. He has developed and taught online Project Management graduate courses. He also has experience in developing and offering multidisciplinary International Training Programs to global audiences. He demonstrates effectiveness in building strong relationships with alumni and international campuses, advisory boards, raising industry funds and developing long-lasting partnerships with industries to enhance student learning. At the California Department of Transportation, he had many diverse Project Management, Planning and Operations assignments. He worked in Design, Construction, Program and Project Management, Public Transportation, Rail, Regional Planning, System and Advance Planning. He was extensively involved in the initiation, development, delivery and assessment of Caltrans' Statewide Project Management, statewide efforts and implementation of Continuous Improvement (Statewide Quality Improvement Efforts) and the District's Strategic Plans.

**Dr. Sesha S. Srinivasan** is an experienced educator, researcher, principal investigator and inventor whose field of research is on the interdisciplinary areas of solid state and condensed matter physics, solid state (inorganic) chemistry, materials science and engineering, environmental science, renewable energy and hydrogen technologies, semiconductors, nanotechnology and multifunctional materials. He will join Florida Polytechnic in August 2014. Dr. Srinivasan will teach both lower and upper level physics

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courses (Algebra and Calculus based) for undergraduates, physics of electrodynamics, wave phenomena, modern physics and solid state physics for senior level undergraduate and graduate students. He will share the responsibilities of teaching graduate courses on multifunctional materials, nanotechnology, advanced characterization, semiconductor technology, magnetics and innovative technology.

Most recently, he served as assistant professor in Physics at Tuskegee University in Alabama. He taught Algebra- and Calculus- based Physics courses, including Elementary General Physics (I & II), Applied Physics (I & II), Solid State Physics and Materials Science, Wave Phenomena, Electricity and Magnetism and Modern Physics. He also taught Engineering Ethics courses for Engineering and Science majors. He served as Physics Faculty Liaison to the Tuskegee Center for Academic Excellence and Innovative Learning

**Dr. Jim Dewey** will be responsible for developing and teaching Economics courses that complement the STEM focus and fit the General Education program at Florida Polytechnic University. He will join Florida Poly as a full-time assistant professor in August 2014. Economics can play an important role in an institution like Florida Poly with an applied STEM focus. STEM training is valuable for not only the topics covered but also for the analytical, critical thinking and problem-solving skills developed through study in STEM disciplines. Most recently, Dr. Dewey served as the Director of the Economic Analysis Program at the University of Florida's Bureau of Economic and Business Research. Dr. Dewey's research has yielded \$2.5 million in external funding. From 2006-2010, he taught Managerial Economics at the University of Florida's Warrington College of Business Administration, where he served as a University Scholars Program faculty mentor and was 2009-2010 Teacher of the Year. Prior to that, he taught Principles of Microeconomics, Intermediate Microeconomics and Intermediate Macroeconomics at the University of South Florida.

**Dr. Wylie Lenz** will join Florida Polytechnic as a full-time assistant professor in August 2014. Most recently, Dr. Lenz taught Creative Writing and Composition full time as a visiting English professor at Florida Southern College in Lakeland. From 2010-2013, Dr. Lenz held a teaching fellowship through the University of Florida's Writing Program, serving as a mentor to small groups of incoming graduate students during their first year as Composition instructors. In 2011, Dr. Lenz won a competitive Graduate Student Course Development Grant through the Center for European Studies and the U.S. Department of Education. Dr. Lenz was co-editor of the anthology, "Generation Zombie: Essays on the Living Dead in Modern Culture," published by McFarland & Co.

**Dr. Victoria Astley** will be teaching courses in Physics and Mathematics, with a focus on providing a "solid scientific education for undergraduates in technical fields." She will join Florida Polytechnic as a full-time assistant professor in August 2014. Most recently, Dr. Astley worked as an educator for the Kalmar Nyckel Foundation in Delaware, teaching students aboard the historic sailing ship, Kalmar Nyckel. She also developed a unit on Physics at various levels by using examples of traditional sailing. Dr. Astley's research has focused on terahertz technology, an interdisciplinary field overlapping physics and electrical engineering with real-world applications. From 2005-2012, she worked as a lab instructor and as a recitation section instructor in General Physics at Rice University in Texas. She also designed and led

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research projects for undergraduate students. She was a founder of the Women in Physics Group at Rice University.

**Dr. Chris Yakymyshyn** is a scientist, scholar, inventor and entrepreneur who will teach Electrodynamics, Control Systems and Magnetics at Florida Polytechnic. He has authored more than 60 technical papers, one book chapter and has 37 U.S. patents.

He is co-founder and vice president of technology at FieldMetrics Inc., where he has been employed since 2001. He also worked for nearly a decade at GE Corporate Research and ABB Transmission Technology Institute developing optical sensors and materials for power utility, medical imaging, acoustics and radar applications.

Previously, he taught Electrical Engineering as a tenured associate professor at Montana State University. He has won numerous awards and honors, including the NSERC and Alberta Heritage scholarships, the Eta Kappa Nu outstanding young electrical engineer of the year runner-up, two Montana State teaching excellence awards and R&D 100 awards in 1997, 2001 and 2005.

Dr. Yakymyshyn holds a doctoral and master's degree in Electrical Engineering from Cornell University. He earned his bachelor's degree in Electrical Engineering/Physics from the University of Alberta, Canada. He is a senior member of the IEEE and a Life member of the Optical Society of America.

**Dr. Christina Drake** will teach courses in Mechanical, Industrial and Electrical Engineering, with a focus on Nanotechnology, Multifunctional Materials, Semiconductors and Electrodynamics. She joined Florida Polytechnic in April 2014.

Most recently, Dr. Drake was a senior research engineer at Lockheed Martin Missiles and Fire Control, a post she held since 2008. Prior to that, she was a nanotechnology research engineer at Lockheed Martin. Dr. Drake holds four provisional patents. She started and co-chaired the Lockheed Martin Nano-Bio working group and is the nanotechnology editor for Industrial Biotechnology. Her research interests cover novel materials and sensors based on meta-material-based approaches; low-cost imagers and sensors; and biologically inspired or incorporated sensors and platforms.

She has taught high school Physics and Earth Science, undergraduate Chemistry and graduate seminars in Advanced Materials. Dr. Drake has been involved in several statewide programs that studied and developed methods for improving STEM education for K-12 students. She served as an advisory member for FCR-STEM, an initiative to improve retention of females and minorities in STEM studies. She also was an advisor for the University of Central Florida's Nanoscience Center.

She holds a doctorate in Materials Science and Engineering from the University of Central Florida. Her bachelor's degree is in Materials Science and Engineering from the University of Florida. Her honors and fellowships include the University of Central Florida College of Engineering Distinguished Alumnae Award for Materials Science and Engineering (2013); Lockheed Martin Innovate the Future winner (2009 and 2012); the National Science Foundation's GK-12 fellowship; the University of Central Florida graduate merit fellowship; and Blue Key Honor Society.

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**Dr. Patrick Luck** is a dedicated and passionate professor who believes that History courses “can teach students a number of valuable skills, including thinking historically and, more generally, thinking critically.” He will join Florida Polytechnic full time in August 2014. Dr. Luck’s goal in the classroom is to teach students how to ask the appropriate questions and how to conduct the research to find and develop the answers. His classwork involves lectures, discussions, group work and the encouragement for students to form and articulate their own ideas and interpretations.

Dr. Luck’s experience includes serving as visiting assistant professor in the Department of History and Geography at Columbus State University in Georgia. Prior to that, he was a temporary lecturer at the university. His courses included American Slavery and Emancipation, The Atlantic Roots of the United States, Early American History: From Jamestown to the Revolution, American History before 1865, and American History after 1865. He also served as an instructor at Johns Hopkins University, where he designed and taught courses that covered Slavery and Freedom in the Americas and Writing the History of Slave Resistance.

His grants and fellowships include the Kate B. and Hall J. Peterson Fellowship from the American Antiquarian Society (2012), the Graduate Student Travel Award from the Social Science History Association (2011) and the Dean’s Teaching Fellowship from Johns Hopkins University (2011). He was a finalist for the 2013-15 Omohundro Institute of Early American History and Culture Two-Year Postdoctoral Fellowship. His professional affiliations include the American Historical Association, the Organization of American Historians and the Society for Historians of the Early American Republic.

He received his doctorate in History from Johns Hopkins University. He earned his master’s in History from the University of Texas-Austin. He holds two bachelor degrees from Rice University, in History and in Chemical Engineering.

**Dr. James Byrd** has a doctorate in Chemical Oceanography from Florida State University in Tallahassee. He has a Master of Public Health Degree in Environmental Chemistry from the University of North Carolina at Chapel Hill, where he also earned his bachelor’s degree in Chemistry and French.

Prior to joining Florida Polytechnic, Dr. Byrd was founding dean of the school of applied sciences at Mount Ida College in Newton, Mass. He also held various administrative positions at Florida Southern College in Lakeland, including associate dean of Academic Affairs, founding dean of the School of Arts and Sciences and interim vice president for Academic Affairs.

He was a tenured Chemistry professor at Armstrong Atlantic State University in Savannah, Ga. At Skidaway Institute of Oceanography in Savannah, he was an assistant professor and adjunct research professor. He has taught courses in General Chemistry, Analytical Chemistry, Instrumental Analysis, Environmental Science, and Oceanography. His research has focused on trace element analysis and determination of chemical transformations in a variety of environments.

**Dr. Jaspreet Singh Dhau** brings 12 years of classroom and research experience to his role teaching Chemistry at Florida Polytechnic University. Dr. Singh Dhau describes his teaching philosophy as

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“interactive” and “student-centered.” His aim is to “generate curiosity among students so that they explore more deeply and develop their own insights.”

Most recently, Dr. Singh Dhau served as a research scientist in Electrical Engineering at the University of South Florida-Tampa. Prior to that, he worked as an assistant professor in Chemistry at Punjabi University in India, where he supervised candidates working toward their master’s and doctoral degrees. He taught post-graduate courses and developed curricula for students in undergraduate, master’s and doctoral programs. The courses included Materials Characterization, Symmetry Elements and Applications in Electronic and Infrared Spectroscopy, and Advanced Organometallic Chemistry.

He holds a doctorate in Chemistry (Materials) from Panjab University, India’s top-ranked university. His Master of Science degree is in Chemistry from Himachal Pradesh University, India. He has a Master of Business Administration from Punjabi University, India. He holds six U.S. patents, all of which are currently being used in industry.

**Dr. Jessica Zbeida** brings diverse experience to her role teaching English at Florida Polytechnic University. She has a traditional background as a Composition professor for undergraduates. She also has been an instructor Teaching English to Speakers of Other Languages (TESOL) and international and non-native speakers in writing.

Most recently, she was a dual-credit Composition instructor at North Central College Texas. She also served as an Early College Start Instructor at Austin Community College in Texas. She was responsible for teaching college-level Composition courses to high school students. At the same times, she was an ELL Resource Specialist at Southwestern University in Texas, where she was responsible for providing individual and group tutoring services. Dr. Zbeida also conducted professional development training for faculty and writing center tutors.

Dr. Zbedia holds a doctorate in English from University of North Texas-Denton. She earned her master’s degree in English from the University of Southern Mississippi-Hattiesburg. She has a post-baccalaureate certificate in TESOL from the University of North Texas-Denton. She earned two bachelor’s degrees, in English and Philosophy, from the University of Texas.

Her research covers the publication history of writers James Joyce and Samuel Beckett. She also examined the literature of contemporary American women writers, including Kathy Acker, Dorothy Allison, Toni Morrison and Joyce Carol Oates.

Her honors include second prize from the Baltimore Review in the 2011 Short Fiction Contest. She won an Academic Achievement Scholarship from the Toulouse School of Graduate Studies at the University of North Texas (2005-2010).

Her short story, “Emu,” will be published this year by Ashland Creek Press in the anthology, *Among Animals: The Lives of Animals and Humans in Contemporary Fiction*.



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**Dr. Amanda Bruce** brings more than a decade of experience teaching American History to her new post at Florida Polytechnic University. Dr. Bruce earned her doctorate and master's degree in History at Stony Brook University. Her dissertation examined public concern over the influence of popular media – radio and TV – on children from 1930-1960. Dr. Bruce earned a bachelor's degree in History from the University of California-Santa Barbara.

Her awards and honors include the Clarke Chambers Travel Fellowship at the University of Minnesota and the Marshall Fishwick Travel to Popular Cultures Grant through the Popular Culture/American Culture Association.

At Stony Brook, she served as a History instructor for seven years as well as a research assistant, learning communities instructor and writing instructor. She taught History at the Casablanca American School in Morocco for one year. Students in her classes work individually and in groups to analyze primary sources and develop presentations that enable them to connect with topics and subjects in a personal, meaningful way.

Most recently, Dr. Bruce worked as an adjunct History professor at the University of Tampa where she taught History of Women in America, The United States Since 1877, the History of American Popular Culture, and World History Since 1500. She also was a full-time History instructor at Nassau Community College where she taught U.S. History and America Today.

**Dr. Heather Freeman** will teach English and help develop undergraduate Literature and Composition courses for the University's General Education Program. She joins the University full time in August. Dr. Freeman views teaching as a "collaborative process that is very much about working *with* students," and uses this idea of a collaborative classroom to develop in her students a "critical awareness of how cultural norms and language itself are constructed."

Most recently, Dr. Freeman was a lecturer in English at Vanderbilt University in Tennessee, where she received both a doctorate and master's degree in English. She also served as a graduate instructor in English at Vanderbilt from 2009-2013. She earned her bachelor's degree in English Language and Literature from Yale University in Connecticut.

Dr. Freeman's research and teaching have focused on Victorian literature and gender. She has been honored with the Rose Alley Press Achievement Award from Vanderbilt (2011), the University Graduate Fellowship at Vanderbilt (2008-2013), and the McLaughlin Prize for Outstanding Work in English from Yale University (2008).

Her knowledge of languages includes French and Old English. She is a member of the Modern Language Association, the North American Victorian Studies Association and the Research Society for Victorian Periodicals.

**Dr. Jared Bunn** brings experience teaching mathematics at St. Petersburg College and Eckerd College to his new post as Assistant Professor of Mathematics at Florida Polytechnic University. Dr. Bunn sees an

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advantage to teaching a variety of courses, from College Algebra to Calculus. It has helped him to develop many effective pedagogical approaches in the classroom.

Dr. Bunn completed both his Ph.D. and master's degree in Mathematics at the University of Tennessee. His bachelor's degree in Mathematics is from the University of Tennessee at Martin.

Most recently, he worked as an adjunct math instructor at St. Petersburg College's Tarpon Springs campus and at Eckerd College in St. Petersburg. He also taught for two years at Truman College in Chicago. At Truman, he served on the Textbook Search Committee and the Assessment Committee.

Dr. Bunn is a member of the Mathematical Association of America and of the American Mathematical Society. His research interests include Coarse Geometry, General Topology and Algebraic Topology.

His awards and honors include a UT travel award to present at the Joint Mathematics Meeting in San Francisco in 2010, a travel award from the University of Utah's VIGRE grant to attend a mini-course on Coarse Differentiation in 2008, and the undergraduate Mathematics Award from the University of Tennessee at Martin in 2004.

**Dr. Patrick Zhang** was trained in metallurgical engineering and earned his B.S. in Metallurgy from Northeastern University (China); M.S. in Metallurgical and Chemical Engineering from the Institute of Process Engineering (IPE), Chinese Academy of Sciences; and Ph.D. at University of Nevada, Reno. He did research at the University of Utah, the University of Nevada, and KCA, a consulting firm specializing in gold mining. Since that time, his work experiences are mostly related to phosphate processing, including 20 years as a research director with the Florida Industrial and Phosphate Research Institute.

**Dr. Steven Richardson** has been employed as Director of Reclamation Research at the Florida Institute of Phosphate Research since 1988. Previously, he had been involved in mine reclamation research, regulation, and planning associated with various oil shale, coal, uranium, and sand and gravel projects while employed at Utah State University's Institute for Land Rehabilitation, the Colorado Department of Natural Resources, and Mobil Oil Corporation's Mining and Coal Division. He earned a Ph.D. in Plant Ecology and Physiology in 1979 from Utah State University, his M.S. in Plant Science also from Utah State and his B.S. degree in Botany and Chemistry from Weber State College.

**Gary Albarelli** came to the Florida Industrial and Phosphate Research Institute in 1992. Gary earned a B.S. degree in Mechanical Engineering from Cornell University in 1978 and attended Harvard University from 1980-1984. For five years he was a Mechanical Engineer with Raytheon where he served as lead mechanical project engineer for the PATRIOT missile Tactical Software Development Facility. He has also worked with RCA Automated Systems as a Lead Mechanical Project Engineer, and Schlumberger as a Junior Field Engineer. In 2010, he became the Director of Information Programs at FIPR when the Information Program was established for the three principal information work areas; K-12 Education Program, Communications and Marketing and the Library. Gary has co-authored three comprehensive bibliographies on beneficiation, phosphate deposits, and phosphatic clay.

## Academic Programs

# Monthly Update to the Board of Governors

Florida Poly has established a College of Engineering and a College of Innovation & Technology. The University offers six baccalaureate degrees, three each in both of the two colleges listed in Table 5. Also in Table 5 there are listed two Masters degrees, one in each of the two colleges. The degrees and concentrations were selected because they address identified gaps in the future workforce, avoid unnecessary duplication and provide for synergies and interdisciplinary opportunities that will benefit students and the industries that will hire them.

Four of the University’s six degrees and one area of concentration are among the top 10 “Most Recommended Majors” in a 2013-2014 report generated by PayScale.com. The report ranked Computer Engineering and Industrial Engineering at No. 2 (tied), Electrical Engineering at No. 6 and Computer Science at No. 7. Supply Chain Management, which Florida Polytechnic will offer as an area of concentration under its Science degree program, was ranked No. 1.

COLLEGE OF INNOVATION & TECHNOLOGY	COLLEGE OF ENGINEERING
<p><b>Bachelor of Science Degrees</b></p> <p><b>ADVANCED TECHNOLOGY</b> <i>with one of the following concentrations</i></p> <ul style="list-style-type: none"> <li><i>Big Data Analytics</i></li> <li><i>Cloud Virtualization</i></li> <li><i>Health Informatics</i></li> </ul> <hr/> <p><b>COMPUTER SCIENCE &amp; INFORMATION TECHNOLOGY</b> <i>with one of the following concentrations</i></p> <ul style="list-style-type: none"> <li><i>Cyber Gaming</i></li> <li><i>Information Assurance &amp; Cyber Security</i></li> </ul> <hr/> <p><b>SCIENCE &amp; TECHNOLOGY MANAGEMENT</b> <i>with one of the following concentrations</i></p> <ul style="list-style-type: none"> <li><i>Logistics</i></li> <li><i>Materials &amp; Supply Chain</i></li> </ul>	<p><b>Bachelor of Science Degrees</b></p> <p><b>COMPUTER ENGINEERING</b> <i>with one of the following concentrations</i></p> <ul style="list-style-type: none"> <li><i>Digital Logic Design</i></li> <li><i>Embedded System Design</i></li> <li><i>Machine Intelligence</i></li> </ul> <hr/> <p><b>ELECTRICAL ENGINEERING</b> <i>with one of the following concentrations</i></p> <ul style="list-style-type: none"> <li><i>Control Systems</i></li> <li><i>Digital &amp; Hybrid Systems</i></li> <li><i>Electrodynamics</i></li> <li><i>Magnetics</i></li> <li><i>Semiconductors</i></li> </ul> <hr/> <p><b>MECHANICAL &amp; INDUSTRIAL ENGINEERING</b> <i>with one of the following concentrations</i></p> <ul style="list-style-type: none"> <li><i>Geometric Dimensioning &amp; Tolerancing</i></li> <li><i>Motion Intelligence</i></li> <li><i>Multifunctional Materials</i></li> <li><i>Nanotechnology</i></li> </ul>
<p><b>Master of Science Degree</b></p>	<p><b>Master of Science Degree</b></p>
<p><b>INNOVATION &amp; TECHNOLOGY</b></p>	<p><b>ENGINEERING</b></p>

**Table 5: Florida Polytechnic University Colleges, Degree Programs and Concentrations**

## **Criterion B**

**Enrollment of 1,244 FTE**

# Monthly Update to the Board of Governors

## Student Recruitment

Since late August the University's five admissions counselors have visited over 200 high schools and attended over 106 college fairs around the State of Florida. In addition, they will visit most of the community and state colleges in Florida. The University continues its contact to over 230,000 high achieving freshmen and transfer prospects by email and print communication pieces.

Florida Poly's graduate student online application was live as of November 1, 2013. The undergraduate student online application has been live since early September 2013. The admissions staff has moved into offices located on campus next to the University's Innovation, Science & Technology building.

As of June 1, 2014 Florida Polytechnic University has received over 10,439 inquiries (see Table 1) for undergraduate programs and 321 inquiries for graduate programs. Inquiries come from all 50 states. To date 966 undergraduate students have been admitted and 30 graduate students. The undergraduate admitted students have an average GPA of 3.9, an SAT score of 1775 and an ACT score of 26.

**Table 1: 2014 Undergraduate Admissions Statistics**

<b>2014 Undergraduate Admissions Statistics</b> <b>Updated June 1, 2014</b>	<b>QTY</b>
Inquiries	10,439
Applications Completed	2,894
Students Admitted	966
Prefer On-campus Housing	2,033
Prefer Off-campus Housing	861
Inquiries from Florida	6,916
Inquiries from other states	3,523

The University has received 2,894 undergraduate student applications. Of the 2,894 undergraduate applicants, 2,246 are First Time-In-College, 594 are transfer students and 54 other. In Tables 2 & 3, these applications are broken down by major and concentration for undergraduate and graduate inquiries.

Among current applicants, 2,033 expressed an interest in on-campus housing and 861 prefer off-campus housing.

# Monthly Update to the Board of Governors

**Table 2: 2014 Undergraduate Applications by Major with Concentration**  
Last Updated 6/1/14

Major	Count
Computer Science and Information Technology/Cyber Gaming	505
Industrial Engineering/Nanotechnology	244
Computer Science and Information Technology/Cyber Security (now combined)	440
Advanced Technology/Health Informatics	229
Computer Engineering/Machine Intelligence	230
Electrical Engineering/Control Systems	128
Science & Technology Management/Logistics	217
Advanced Technology/Big Data Analytics and Cloud Virtualization	130
Computer Engineering/Digital Logic Design	132
Computer Engineering/Embedded System Design	102
Industrial Engineering/Geometric Dimensioning and Tolerancing	79
Industrial Engineering/Multifunctional Materials	126
Electrical Engineering/Digital Systems	82
Electrical Engineering/Electrodynamics	100
Electrical Engineering/Magnetics	41
Science/Materials and Supply Chain	49
Electrical Engineering/Semiconductors	20
Industrial Engineering/Motion Intelligence <sup>1</sup>	89
Undecided	12

<sup>1</sup>Was previously titled Motion Control

# Monthly Update to the Board of Governors

**Table 3: 2014 Graduate Applicants by Major\***  
Last Updated 6/1/14

Major	Count
Masters of Engineering	34
Masters of Innovation and Technology	54

\*The Board of Trustees approved offering two masters level degrees instead of the six that had been approved previously.

## Admissions Requirements

Florida Polytechnic University is recruiting some of the brightest students in Florida and across the nation. They will be attracted to the innovative and cutting edge programs. In addition, students will be attracted to programs that allow them opportunities to apply their knowledge to real world problems.

**Undergraduate Admissions Guidelines:** High School GPA – 3.0 (4.0 scale) SAT - 1650 ACT – 23

**Graduate Admissions Guidelines:** Bachelor in Engineering or related discipline GPA 2.7 or higher in the last 60-semester credits GRE when GPA is less than 3.25

## Scholarships

The University’s Board of Trustees voted at its August meeting to approve a scholarship program for the 2014 entering class of undergraduate and graduate students who attend full time. The University’s Trustees will consider extending the program for additional classes at a future meeting. The scholarships will help students to bridge the financial gap that exists while the University seeks accreditation.

Full time undergraduate freshmen, entering in fall 2014, will receive scholarships valued at \$5,000 per year for the first three years and \$3,200 for the fourth year (a total of \$18,200 over four years). The scholarship will be applied toward Florida Poly’s undergraduate tuition and fees which are estimated at \$5,029 for the 2014-15 academic year.

Scholarships for graduate students taking 24 credit hours per academic year will be valued at \$9,300 for each of two years for those entering in fall 2014. The scholarships will be applied toward Florida Poly’s graduate tuition and fees, estimated to be \$11,462 for the 2014-15 academic year.

# **Criterion C**

## **Administrative Capability**



# Monthly Update to the Board of Governors

## Key University Offices Established

**Office of Admissions:** The admissions office, responsible for recruiting students for the University and overseeing the admissions process, moved into its new Admissions Visitor Center on the grounds of the campus. In the new center, students and their families will be able to see a typical classroom and go on guided tours of the campus, including a closer look at the landmark Innovation, Science and Technology building which is scheduled to be completed in the summer of 2014.

**Student Services:** The Director of Student Affairs was hired and began work on October 21, 2013. Florida Poly's Division of Student Affairs advocates a holistic approach to education that goes beyond STEM classroom learning. The Division of Student Affairs strives to enhance the opportunities for our students to participate fully in the University experience. We encourage, support, and provide guidance for students' extracurricular activities while providing the best resources for a fulfilling and rewarding collegiate experience.

Progress update for specific elements of Student Affairs:

- A master plan is being constructed for the services that Student Affairs will provide. Examples of Services: Student Activities, Counseling, Academic Advising, Student Clubs and Organizations, Intramurals, Orientation/Welcome Week, Student Government, Student Publications, Academic Societies, Leadership Development, Religious Activities, Constitution Day, Living In Polk, First Year Experience, Study Abroad
- Collaboration with campus and community partners to design policies and programs that are student-centered
- Discussions with faculty on what academic societies and professional groups should be installed for students that will enhance and support the academic arena
- Discussions with local city officials on alternative recreational options for Florida Poly students
- Collaboration with the University's general counsel on code of conduct and student rights and responsibilities

Collaboration between Academic Affairs, Auxiliary Services and Special Projects will ensure that Florida Poly meets SACS criteria and US DOE requirements by providing extra-curricular activities that include experiential learning as well as opportunities to participate in community activities. These activities will bind the Florida Poly community to our mission and vision in a healthy, safe and secure environment.

Student Affairs was instrumental in the design and layout of Phase One of the Wellness Center, which includes the Health and Wellness Clinic and Fitness Room. Design concepts and equipment suggestions have been researched and are being implemented.

**Chief Information Office:** The IT Division is developing an overall three year strategic technology plan which includes a strategic projects list. There are 30 projects underway that include our strategic relationships with Apple, Microsoft, Google, Adobe, Three Rivers, and others, as well as tactical

# Monthly Update to the Board of Governors

implementations such as outfitting the new Admissions Center and Campus Control Center (CCC) for Network Operations and Monitoring.

**Auxiliary and Business Services:** Food service, postal service, transportation and other services essential to providing a wholesome living environment are being addressed. The University is committed to maximizing its buying power by using contracts currently in place at other institutions. For example, Florida Poly is taking advantage of the buying power of the University of Central Florida's contract with Staples for office supplies and is "piggy-backing" on that contract.

Florida Poly has selected CardSmith to provide the University's students, faculty and staff with an all-in-one identification card. The card will also serve as a building access card and a purchasing card for campus services and some commercial food establishments. Because the card operates on a cloud based network it reduces the need for some network infrastructure.

The Executive Director of Auxiliary & Business Services, along with Chief Operating Officer Ava Parker, attended the annual meeting of the National Association of College Auxiliary Services. They met with auxiliary services directors from around the country and were able to talk with vendors of the various services needed at Florida Poly. In addition, they also met with Dr. Michael Ortiz, president of California Polytechnic State University, to review their program offerings and administrative processes.

**Office of the Registrar:** The Registrar's office is putting into place those regulations, policies and practices to ensure that students can register in an efficient manner and that all student academic records are properly accounted for and secured. The academic calendar and academic catalog are being finalized. Implementation of the Student Information System (SIS) continues to progress and is a major portion of the work in the Office of the Registrar.

**Office of Financial Aid:** The Office of Financial Aid is now drafting the policies and procedures that will govern how all financial aid will be handled including the scholarship program adopted by the Board of Trustees.

**Library:** The Library is being developed with a focus on e-learning and will incorporate an electronic library system. The vision and mission of this innovative library is being developed and administered by Dr. Kathryn Miller, Director of Libraries. Her duties include creating and implementing innovative information literacy and reference strategies for students.

The Florida Polytechnic Library will be central to the campus community and will provide specialized resources that promote curiosity and intellectual discovery in an innovative, user-centered, learning environment. The Library will provide and promote opportunities for every Florida Poly student and scholar to connect, collaborate and anticipate technological progress.

Previously, Dr. Miller served as university librarian and assistant vice president of academic services at Argosy University, where she was responsible for academic support services and the university library at 19 campus locations. She also has worked as a librarian at the Detroit Public Library and at the West Bloomfield Public Library, both in Michigan.

# Monthly Update to the Board of Governors

Dr. Miller holds a doctorate degree in Adult Education from National-Louis University, where she was a faculty member until 2009. She has dual master's degrees – in Library Science from Kent State University and in Teaching from National-Louis University in Chicago. Dr. Miller also earned a law degree from the University of Akron-Ohio. Her bachelor's degree is in English Literature from the University of Illinois at Urbana.

The University Library will enhance the Florida Polytechnic student academic experience by providing innovative, technology-rich research and learning tools that will prepare students for real-world problem solving. The University Library comprises academic resource collections and the Academic Success Center.

The University Library's academic resource collections will consist of 1) Florida Polytechnic's primary, digital resource collection, 2) the specialized Florida Institute for Phosphate Research (FIPR) phosphate collection and 3) the general education print collection housed in the Florida Polytechnic Library at Polk State College.

The University will open with a significant electronic resource collection featuring many resources provided by Florida Virtual Campus (FLVC) including databases from EBSCO, Cengage-Gale and ProQuest. Florida Polytechnic will also be added on to state licenses for Oxford University Press, Sage, Springer and Wiley. A demand driven acquisition model through Electronic Books Library (EBL) is being implemented for book access.

The Academic Success Center (ASC) will be housed in the University Library and will provide academic success services to all Florida Polytechnic University students. ASC will help students to graduate in higher percentages while, supporting and enhancing learning and the overall academic experience.

ASC will provide academic advising using professional and peer advisors. In addition, the center will provide tutoring resources as well as career and graduate school guidance.

**Office of Strategic Business and Education Partnerships:** Florida Polytechnic University will focus on innovation and building close partnerships with business and industry. Those partnerships will provide students with an opportunity to apply what they learn in the classroom on real world problems. Florida Poly is reaching out to business and industry leaders to establish an ongoing exchange of information to identify the knowledge and skills needed by Florida Poly graduates to succeed in the industries related to University's programs. Partnerships will focus on STEM related businesses.

Representatives from over 100 companies and organizations attended the University's first annual Partnership Summit in September 2013 and 44 of those companies expressed an interest in partnering with the University. In addition, discussions about Florida Poly's curriculum generated information that can be used to inform development of the curriculum by faculty.

As of June 5, 2014, 57 companies have signed partnership agreements with Florida Poly. Partner companies range from Microsoft and Harris Corporation to NanoComposix (a young start-up).

## Monthly Update to the Board of Governors

Brewer Science Inc.	Harris Corporation
Cutrale	JBT Foodtech
Manufacturers Association of Florida - Center for Advanced Manufacturing Excellence	JDCPhosphate, Inc.
Mitsubishi Hitachi Power Systems Americas, Inc.	Lakeland Economic Development Council
NanoSafe, Inc.	Lakeland Linder Regional Airport
Sunbelt Forest Products Corporation	Lockheed Martin Missiles and Fire Control
TechData	Madrid Engineering Group
TestEquity, LLC	Microsoft
352 Media Group	nanoComposix, Inc.
A-C-T Environmental & Infrastructure, Inc.	NanoTecNexus
Apex IT	Omniscient Analytics, Inc.
ASI Chemical, Inc.	Pharmaworks, Inc.
Bright House Networks	Prolexic Technologies
BRPH	Protected Trust, LLC
Central Florida Development Council	Qgiv, Inc.
Chastain Skillman	QuantumSphere, Inc.
Cipher Integrations	Saddle Creek Logistics Services
CNP	Sparxoo Agency
Colo5, LLC	Steripack
Department of Transportation	Stryker
Digital Architecture	Sun-N-Fun
DSM Technology Consultants	Tampa Port Authority
Electronic Arts Tiburon	The Story Companies
Greenovative Homes, LLC	Welldyne
Winter Haven Economic Development Council	GreenTechnologies LLC
CSX	

Following the Summit’s working sessions, John Couch, Apple’s vice president of education, delivered a keynote address about the importance of technology in advancing education. Couch was one of Apple’s early leaders and is a widely recognized authority on using technology to revolutionize classroom learning.

Florida Poly’s ability to work closely with industry leaders at this formative stage in the development of its curriculum will distinguish it from other universities. Applying STEM education to real-world challenges creates innovation. By inviting industry leaders to join in designing effective programs for learning, internships and other real-world experiences, we are creating added value for students and for the organizations that will hire Florida Poly graduates.

# Monthly Update to the Board of Governors

**Apple**, one of the most innovative companies in the world, is supporting Florida Poly in its efforts to ensure that students will study in an environment that maximizes technology to improve their learning outcomes. In a series of meetings over this summer, Florida Poly and Apple have engaged in conversations aimed at defining how the mission and vision of the University can be implemented such that its graduates are best prepared for cutting edge high-tech jobs. We have developed a series of near term and longer term issues that Apple has agreed to support.

Florida Polytechnic will work closely with Apple to maximize its use of technology in facilitating and delivering an innovative, 21st-Century learning experience. We are working to ensure that Florida Poly students, faculty and staff have the most innovative technologies available for education and collaboration.

Part of Florida Polytechnic's mission is to prepare students to assume available technology leadership positions by emphasizing science, technology, engineering and mathematics (STEM) in an innovative, technology-rich, interdisciplinary learning environment and by collaborating with industry partners to offer students real-world problem-solving, applied research and business leadership opportunities.

## **Florida Polytechnic University Regulations, Policies and Resolutions**

Following is a list of University regulations, policies and resolutions adopted by the Board of Trustees at Florida Polytechnic University. These regulations and policies have been posted on the University's website.

### **Chapter 1-University-Wide Governance & Guidance**

FPU-1.008 University Holidays Regulation 5.14.13

FPU-1.004 Non-Discrimination and Equal Opportunity Regulation 1.14.2014

FPU-1.005 Discrimination and Harassment Complaint Policy and Procedures 2.5.14

*FPU-1.001AP Policy Creation and Development Process – Academic Policies 12.13.13*

*FPU-1.001P Policy Non-Academic Policy Creation 7.1.13*

*FPU-1.004P Naming of Buildings and Facilities 10.30.13*

*FPU-1.005P Sexual Harassment 10.30.13*

### **Chapter 2-Admissions**

FPU-2.001 Admission to the University General 10.21.13

FPU-2.002 Early Admission and Dual Enrollment 10.21.13

FPU-2.003 First Time in College FTIC 10.21.13

FPU-2.004 Admission of Undergraduate Transfer Students 1.15.14

FPU-2.005 Admission of International Students 1.15.14

FPU-2.006 Application Fee and Admissions Deposit Regulation 7.8.13

FPU-2.008 Graduate Admissions 1.15.14

### **Chapter 3-Student Affairs**

FPU-3.006 Student Code of Conduct 1.14.2014

FPU-3.010 On-Campus Residency Requirement 2.21.14

# Monthly Update to the Board of Governors

FPU-3.009 Reasonable Accommodations for Religious Observances, Practices and Beliefs 4.15.14

## **Chapter 4-Tuition and Fees**

FPU-4.002 Waiver of Tuition and Fees 2.21.14

FPU-4.003 Special Fees, Fines and Charges 7.15.13

FPU-4.004 Procedure for Payment, Waiver, and Refund of Tuition, Fees, Fines, and Penalties 2.21.14

FPU-4.005 Student Withdrawal from Courses Due to Military Service 4.15.14

## **Chapter 5-Academic Affairs**

FPU-5.001 Academic Freedom Academic Freedom and Responsibility 1.14.14

FPU-5.002 University Institutes and Centers 2.21.14

FPU-5.003 Textbook Adoption and Affordability 2.21.14

FPU-5.0001AP New Degree Programming Planning and Approval 12.13.14

# Monthly Update to the Board of Governors

## **Chapter 6-Personel Matters**

FPU-6.001 University Personnel Program 6.27.13

FPU-6.003 Hours of Work and Overtime 2.5.14

FPU-6.004 Annual Leave 8.28.13

FPU-6.005 Sick Leave 8.28.13

FPU-6.006 Sick Leave Pool 2.5.14

FPU-6.007 Other Types of Leave 2.5.14

FPU-6.009 Employment of Relatives 2.21.14

*FPU-6.0005P Cell Phone Allowance 7.1.13*

*FPU-6.006P Florida Polytechnic University Dress Code Policy 11.5.13*

## **Chapter 7-Finance and Administration**

FPU-7.002 Student Financial Aid 2.5.14

FPU-7.003 Investment of Agency and Activity Funds 2.5.14

FPU-7.007 Employee Debt Collection 6.27.13

## **Chapter 8-Purchasing and Leasing**

FPU-8.001 Purchasing 8.28.13

FPU-8.002 Prompt Payment to Contractors Vendors 2.5.14

FPU-8.003 Authority to Suspend or Debar Contractors Vendors 1.14.14

FPU-8.005 Real Property Leasing 1.14.14

FPU-8.006 Leasing 1.14.14

FPU-8.007 Competitive Process for Leasing Land and Facilities 1.14.14

## **Chapter 9-Construction**

## **Chapter 10-Foundation & Affiliated Entities**

### **Resolutions**

2012-002 Delegation of Authority to Chairman and COO

2013-001 Delegation of Authority to the Chief Operating Officer of Florida Polytechnic University

2013-002 Delegation of Authority to Board of Trustees' Committees and to Chair of the Board of Trustees

2013-003 Retroactivity of Annual and Sick Leave

# **Criterion D**

# **Accreditation**



# Monthly Update to the Board of Governors

## Accreditation

Florida Polytechnic University continues to make progress in its preparation to apply for regional accreditation. The institution is developing the necessary policies and procedures, the assessment plan and processes to address regional accreditation standards.

The requirements and processes for achieving initial membership within SACS are delineated by The Commission, using four distinct steps (1) the completion of a Pre-Application Workshop, for Pre-applicants; (2) the Preparation and Submission of an Application for Membership; (3) The Candidacy Committee Visit; and (4) The Accreditation Committee Visit. Florida Poly is currently focused on steps one and two.

1. The University has completed the first step: Pre-Application Workshop for Pre-applicants.
2. The University has selected the primary Florida Poly-SACS Liaison, as recommended by The Commission.
3. The University has selected a SACS consultant to serve as guides during the accreditation process.
4. Towards completing the second step, the University continues to identify all the institutional structures, systems and documentation that are required for the preparation and submission of an Application for Membership to The Commission and for demonstrating compliance with all Core Requirements, Comprehensive Standards, and Federal Regulations.

## Completed Projects

- ✓ March 3, 2014 Completed the initial desk audit of where the institution stands on all standards - submitted to Silver and Associates;
- ✓ April 3, 2014 First Draft -- submitted to Silver and Associates;
- ✓ The University has adopted in accordance with best practice, the following accreditation committee structure. The committee structure assists faculty and staff in their efforts to effectively navigate through the accreditation processes.
  - Application Steering Committee
  - Compliance Committee
  - Writing Subcommittee
  - Documentation Subcommittee
  - Editing Committee
  - Institutional Effectiveness Committee
- ✓ The University has drafted an institution-wide Assessment Plan.

# Monthly Update to the Board of Governors

- ✓ On 3/12/14 Silver and Associates, the accreditation consulting team, provided an all-day, campus-wide Accreditation Assessment Training/Workshop for the Faculty and Unit leaders.
- ✓ On 04/28/2014 Silver and Associates continued an all-day campus-wide workshop to analyze the first draft of the application and to refine the strategic plan and institutional effectiveness assessment plan.

The University:

- a. Is actively engaged in the process of planning and/or developing each academic unit, program and related services, policies, procedures and documents needed to complete Step 2, the Application for Membership and Submission of an Application for Membership.
- b. Has identified and cataloged all of the accreditation resources, made available to institutions by The Commission, to assist in the completion of the application and demonstration of compliance with each Core Requirement, Comprehensive Standard, and Federal Regulation.
- c. Has developed a comprehensive "Accreditation Responsibility Matrix" delineating all units and leaders responsible for completing each accreditation task and providing documentation to demonstrate compliance with SACS Core Requirements, Comprehensive Standards, and the Federal Regulations.
- d. Has selected the Data Management System that will be used to host SACS documentation
- e. Has created the necessary forms to be used to demonstrate compliance in regards to the credentialing and qualifying of the fulltime teaching faculty and adjuncts.
- f. Is identifying SACS related areas for assessment and is preparing to map-out preliminary assessment needs and schedules for the upcoming academic year and beyond, aligning the assessment process with the SACS guidelines.
- g. Has adopted the following accreditation committee structure in order to effectively navigate through the accreditation processes;
  - i. Application Steering Committee
  - ii. Compliance Committee
  - iii. Writing Subcommittee
  - iv. Documentation Subcommittee
  - v. Editing Committee
  - vi. Institutional Effectiveness Committee
- h. The university has drafted an institution-wide Assessment Plan
- i. All of the accreditation committees are reviewing and completing accreditation related tasks under the direction of the Application Steering Committee.
- j. The Application Steering Committee continues to meet weekly to oversee the development of documentations and written revisions for a second draft of the regional accreditation application

## **Criterion E**

**Seek Discipline Specific  
Accreditation**

**Not Yet Applicable**

# **Criterion F**

## **Facilities and Infrastructure**

# Monthly Update to the Board of Governors

## Facilities

Construction of Florida Poly's first building, the Innovation Science and Technology building (IST) is well underway, within budget and scheduled to open for classes to begin in August of 2014. The total appropriation for constructing the campus is \$134 million with \$60 million of that targeted for the IST.

The University's Board of Trustees submitted its approved CIP to the BOG on November 26, 2013. The CIP includes an Academic Research Center, a Student Achievement Center and a residence hall. An agreement with Vestcor Communities, Inc. (Vestcor) was approved by University Trustees on November 26, 2013 for the construction of a 219 bed residential hall on Florida Poly's campus. Under the public private partnership, Vestcor will lease land on the University campus and be fully responsible for the financing, construction, operation and maintenance of the building. The agreement allows for financing and construction of the residence hall while traditional funding sources are not readily available.

**Table 6: Facilities Balances (March 2014)**

Component	Progress	Budget (Feb. 2014)	Budget (Revised March 2014)	Balance (May 2014)
IST	On Schedule	\$78.3 M	\$60.0 M <sup>1</sup>	\$8.6 M
Site and Infrastructure	On Schedule	\$40.0 M	\$40.0 M	\$ 7.0 M
Engineering, Design, Land, and other soft costs	On Schedule	-	\$22.0 M <sup>2</sup>	\$ 0.5 M
Campus Control Center	On Schedule	\$ 3.5 M	\$ 3.5 M	\$ 0.1 M
Classroom, laboratory- furniture, fixtures & equipment	On Schedule	\$ 7.0 M <sup>3</sup>	-	NA
Contingency	NA	\$ 1.9 M	\$ 2.9 M <sup>4</sup>	\$ 2.9 M <sup>5</sup>
<b>Total Original Projects</b>		<b>\$134.4 M</b>	<b>\$128.4 M<sup>6</sup></b>	<b>\$19.1 M</b>
Admissions Center	Completed	-	\$ 1.3 M	-
Housing Utilities and Integration	On Schedule	-	\$ 1.2 M	\$ 0.5 M
Wellness Center – Phase 1	On Schedule	-	\$ 4.5 M	\$4.1 M
Perimeter Fencing	On Schedule	-	\$ 0.4 M	\$ 0.4 M
<b>Total All Projects</b>		<b>\$134.4 M</b>	<b>\$135.8 M<sup>7</sup></b>	<b>\$24.1 M</b>

<sup>1</sup>Budget (\$18.3 M) for engineering, design, land and other soft costs were moved to a separate line.

<sup>2</sup>\$3.7 M in land related costs was erroneously left out of the last report and is included in the line for engineering, design, land and other soft costs bringing the total to \$22.0 M.

<sup>3</sup>Paid for through the State of Florida's Consolidated Equipment Financing Program

<sup>4</sup>\$1 M restored to contingency from classroom, laboratory- furniture, fixtures & equipment

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<sup>5</sup>Balance reflects a change in funding source from contingency to donated funds

<sup>6</sup>\$6 M no longer budgeted from construction funds for classroom, laboratory- furniture, fixtures & equipment

<sup>7</sup>Includes budget for Admissions Center, housing utilities/integration, Wellness Center-Phase 1, perimeter fencing

As of May 1, 2014 the private developer has fully processed applications and received deposits for all 219 bedrooms in the Residence Hall (100% occupancy). Also, they have processed an additional 35 applications that have been placed on a waiting list. Based on the present demand for more beds, the developer and the University have agreed that a certain number of single occupancy bedrooms will be converted to double occupancy in order to accommodate more students. Construction on the residence hall continues on schedule to be occupied by students in time for the Fall 2014 academic year.



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## Institutes and Centers

### Florida Industrial and Phosphate Research Institute (FIPR)

FIPR has been transferred to Florida Polytechnic University as required in section 1004.346, Florida Statutes. Research at FIPR is conducted in the areas of Mining and Beneficiation, Chemical Processing, Reclamation, and Public & Environmental Health. Scientists and engineers throughout the world apply for FIPR Institute grants to conduct phosphate-related studies supporting the mission of the Institute: improving the environment, protecting public health and increasing mining and processing efficiency. FIPR Institute staff biologists, engineers and chemists also conduct in-house research. The following projects are currently active:

- Innovative RTS Technology for Efficient Separation of Dolomite from Phosphate (University of Kentucky)
- Recovery of Rare Earth Elements from Florida Phosphate (FIPR in-house)
- Isolation and Characterization of RE Mineral Particles in Florida Phosphate Rock by DE Rapid Scan Radiography and HRXMT (University of Utah)
- Screening of a New Candidate Biological Control Agent of Brazilian Peppertree (UF)
- Remote Real-time Industrialized Analyzer of Phosphate Rock (R Squared S, Inc. with Laser Distance Spectrometry, Israel)
- Impact of Phosphate Fertilizer, Phosphoric Acid and Animal Feed Production Processes on Levels of Hazardous Air Pollutants and Their Distribution Along Production Pathways (UF)
- Commercial Development and Validation of a Disposable Personal Sampler for Inorganic Acid Mist Measurement (UF)
- Statistical and Spatial Analysis of Pre- and Post-Mining Radiological Data (Cardno ENTRIX)

FIPR also participated in management planning for the Critical Materials Institute (CMI) funded by the Department of Energy. Led by the Ames Laboratory, the team includes: Advanced Recovery, Inc., Brown University, Colorado School of Mines, Cytec Industries, Inc., The Dow Chemical Company, Florida Industrial and Phosphate Research Institute, General Electric Company, Idaho National Laboratory, Iowa State University of Science and Technology, Lawrence Livermore National Laboratory, Molycorp Minerals, LLC, Oak Ridge National Laboratory, OLI Systems, Inc., Purdue University, Rutgers, the State University of New Jersey, Simbol Materials, Inc., and the Regents of the University of California, (“UC-Davis”). The project establishes an Energy Innovation Hub that will develop solutions to the domestic shortages of rare earth metals and other materials critical for U.S. energy security.

The Institute strives to commercialize its research and generate revenue in addition to the phosphate severance tax from which it is funded. FIPR recently signed a Strategic Collaboration Agreement with Guangxi ZhongkaiTech, China University of Geosciences (Wuhan), and Guangxi Academy of Sciences to establish a limited liability company named Kaite International Minerals Resource Comprehensive Utilization Group (Kaite International). The company will develop and commercialize technologies using phosphogypsum. During this same two-month period, FIPR also entered into a contract with Pegasus TSI, Inc. to conduct research on removal and recovery of MgO from phosphate rock by acid leaching.

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FIPR has an ongoing series of contracts with other companies to chemically characterize phosphate deposits and other core samples, which occupy the institute's metallurgical and analytical laboratories at full capacity.

In addition to funding and conducting research, the FIPR Institute Education Program coordinates the FIPR Summer Workshop for teachers. Teachers come from all over the State of Florida to learn about phosphate and phosphate-related topics. The goal of this teacher education program is to help them stay current on issues related to phosphate research and provide them with teaching tools to with which to engage their students. Teachers learn practical applications, participate in hands-on exercises, speak to experts in several phosphate/phosphate-related fields and go on field trips to see daily phosphate operations. FIPR's staff is using input obtained from this year's Summer Workshop to create a STEM-themed presentation for the Florida Association of Science Teachers (FAST) Conference in October 2013.

In addition, construction was completed on the Admissions Center at the entrance to the campus. It will serve as the hub of Florida Poly's recruiting and admissions activities. The admissions staff moved into the new facility on November 26, 2013.