



STATE  
UNIVERSITY  
SYSTEM  
of FLORIDA  
Board of Governors

**AGENDA**

**Select Committee on Florida Polytechnic University**  
**Turnbull Conference Center, Room 208**  
**Florida State University**  
**Tallahassee, Florida**  
**March 19, 2014**  
**3:30 p.m. - 3:45 p.m.**

**or**

**Upon Adjournment of Previous Meetings**

**Chair: Mr. Tom Kuntz**  
**Members: Link, Morton**

- 1. Call to Order and Opening Remarks** **Governor Tom Kuntz**
  
- 2. [Approval, Committee Meeting Minutes](#)** **Governor Kuntz**  
Minutes, [January 15, 2014](#)
  
- 3. [Florida Polytechnic University Implementation Update](#)** **Ms. Ava Parker**  
*Chief Operating Officer,*  
*Florida Polytechnic University*
  
- 4. Closing Remarks and Adjournment** **Governor Kuntz**

STATE UNIVERSITY SYSTEM OF FLORIDA  
BOARD OF GOVERNORS  
Select Committee on Florida Polytechnic University  
March 19, 2014

**SUBJECT:** Approval of Minutes of the January 15, 2014 Committee Meeting

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**PROPOSED COMMITTEE ACTION**

Approval of summary minutes of the meeting held on January 15, 2014 at Florida Gulf Coast University.

**AUTHORITY FOR BOARD OF GOVERNORS ACTION**

Article IX, Section 7, Florida Constitution

**BACKGROUND INFORMATION**

Committee members will review and approve the summary minutes of the meeting held on January 15, 2014 at Florida Gulf Coast University.

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**Supporting Documentation Included:** Minutes, January 15, 2014

**Facilitators/Presenters:** Governor Kuntz

MINUTES  
STATE UNIVERSITY SYSTEM OF FLORIDA  
BOARD OF GOVERNORS  
SELECT COMMITTEE ON FLORIDA POLYTECHNIC UNIVERSITY  
FLORIDA GULF COAST UNIVERSITY  
FORT MYERS, FLORIDA  
JANUARY 15, 2014

*Video or audio archives of the meetings of the Board of Governors  
and its Committees are accessible at <http://www.flbog.edu>.*

1. Call to Order and Opening Remarks

Governor Tom Kuntz, Chair, convened the meeting of the Select Committee on Florida Polytechnic University at 1:57 p.m. Members present were Wendy Link and Ed Morton.

Chair Kuntz outlined the foundation and purpose of the Select Committee and provided information on Florida Statute 1004.345 that outlines Florida Polytechnic's requirements. Chair Kuntz explained that with a focus on helping Florida Polytechnic achieve accreditation by December 2016, the Committee would be updated on the following aspects of implementation:

- Curriculum Planning and Development;
- Student Recruitment Strategies and Response Rate;
- Scholarships and Other Student Support;
- Faculty and Staff Recruitment; and
- Budget and Facilities.

2. Approval of Committee Minutes from May 23, 2012

Ms. Link moved that the Committee approve the Minutes of the meeting held May 23, 2012 as presented. Mr. Morton seconded the motion and the Committee concurred.

3. Florida Polytechnic University Implementation Update

Chair Kuntz recognized Ms. Ava Parker, Chief Operating Officer of Florida Polytechnic University, to provide the implementation update.

Ms. Parker clarified the mission and vision of Florida Polytechnic developed by their Board of Trustees and discussed Florida Polytechnic's focus on STEM degree programs, particularly technology and engineering, in order to contribute to Florida's high tech work force. Ms. Parker provided information on Florida Polytechnic's current budget and expenditures and discussed hiring and regulation development as it relates to

Southern Association of Colleges and Schools accreditation. Ms. Parker then asked Dr. Ghazi Darkazalli, Provost, to provide an explanation of developing degree programs.

Dr. Darkazalli outlined the degree programs that will be offered in the College of Engineering and the College of Innovation & Technology. Dr. Darkazalli discussed feedback received from the Council of Academic Vice Presidents and from faculty assessment, then provided information on faculty hires and student recruitment.

Governor Dean Colson asked for further information on student recruitment. Ms. Parker explained that Florida Polytechnic is recruiting equal numbers of transfer students as incoming freshmen, and that they will have the total number of students who have committed a deposit to enroll by May 1<sup>st</sup>.

Mr. Morton asked about Florida Polytechnic's involvement with aeronautical engineering. Ms. Parker confirmed that the Board of Trustees did discuss including aeronautical engineering as an area of study, but decided not to immediately go into that area due to existing programs with the State University System and the Florida College System. Ms. Link asked for clarification on how Polytechnic relates to state colleges, and Ms. Parker explained that Florida Polytechnic is implementing degree programs that would complement existing programs and were feasible within the initial budget and timeline constraints.

Chair Kuntz asked about the cost per student in terms of efficiency and in comparison to the rest of the System. Ms. Parker discussed Florida Polytechnic's projected growth model.

Governor Mori Hosseini asked if the Committee could have a copy of Florida Polytechnic's projected growth model and Ms. Parker confirmed that the Committee would have a copy by the next meeting.

Governor Pat Frost asked for clarification on the faculty hiring plan. Dr. Darkazalli explained Florida Polytechnic's targeted faculty recruitment approach.

Chair Kuntz asked Florida Polytechnic to restructure their reporting by using the colors red, yellow and green to indicate the level of progress on legislative requirements.

Mr. Colson asked about philanthropy. Ms. Parker provided a review of the Florida Polytechnic University Foundation including fundraising goals and progress so far.

Ms. Parker continued her update by discussing Florida Polytechnic's focus on industry partnerships and a review of the facilities plan.

Ms. Link asked for a further explanation of the operating budget and Carry Forward funds, which Ms. Parker provided. Mr. Robert Gidel, Chairman of the Florida Polytechnic Board of Trustees, continued the explanation of Carry Forward funds to include a breakdown of academic and capital uses.

Governor Manoj Chopra asked why the website used .org, and Ms. Parker explained that governmental rules prevented Florida Polytechnic from using a .edu website extension pending accreditation.

Chair Kuntz ended the meeting by reminding the representatives from Florida Polytechnic that the Committee has requested a breakdown of total cost per student, a green-yellow-red update on legislative requirements, and information on budget, expenditures, and projected continued cost of building construction.

#### 4. Closing Remarks and Adjournment

Having no further business, Chair Kuntz adjourned the meeting at 3:02 p.m.

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Tom Kuntz, Chair

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Melissa Giddings, Educational Policy Analyst

STATE UNIVERSITY SYSTEM OF FLORIDA  
BOARD OF GOVERNORS  
Select Committee on Florida Polytechnic University  
March 19, 2014

**SUBJECT:** Florida Polytechnic University Implementation Update

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**PROPOSED COMMITTEE ACTION**

For Information

**AUTHORITY FOR BOARD OF GOVERNORS ACTION**

Article IX, Section 7, Florida Constitution

**BACKGROUND INFORMATION**

Florida Polytechnic University was created by the 2012 Legislature and Governor Scott. Section 1004.345, Florida Statutes, requires that by December 31, 2016, the university shall achieve accreditation from the Commission on Colleges of the Southern Association of Colleges and Schools; initiate new programs in STEM fields; seek discipline-specific accreditation for programs; attain a minimum FTE of 1,244, with a minimum 50 percent of that FTE in the STEM fields and 20 percent in programs related to those fields; complete facilities and infrastructure; and have the ability to provide administration of financial aid, admissions, student support, information technology, and finance and accounting with an internal audit function. The university expects to enroll its first students in Fall 2014.

Florida Polytechnic University will provide brief remarks and respond to any questions from the Select Committee concerning its latest monthly progress update, including student enrollment, faculty recruitment, curriculum development scholarship support, and budget and facilities.

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**Supporting Documentation Included:**

1. Monthly Report
2. Green-Yellow-Red Light Report
3. Funding Per FTE Student

**Facilitators/Presenters:** Ms. Ava Parker, Chief Operating Officer,  
Florida Polytechnic University



# Monthly Update to the Select Committee on Florida Polytechnic University

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Mori Hosseini, Chair

3/10/2014

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

**Mission Statement:** *Florida Polytechnic University's mission is to educate students emphasizing Science, Technology, Engineering and Mathematics (STEM) in an innovative, technology-rich and interdisciplinary learning environment. The University collaborates with industry partners to offer students real-world problem-solving, work experience, applied research and business leadership opportunities. Florida Polytechnic prepares students to assume available leadership positions in the dynamic technological landscape in Florida, the nation, and the world.*

**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.

### Strategic Plan

The University has hired a consultant to guide development of a strategic plan that aligns with the BOG strategic plan for the system. Florida Poly's strategic plan will be completed in the first quarter of 2014.

### 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.



## Monthly Update to the Board of Governors

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.

### Presidential Search

The R. William Funk & Associates higher education search firm has been retained by the University's Board of Trustees to assist in the hiring of Florida Poly's first president. The firm has begun interviewing key stakeholders in order to assist the Board with developing the characteristics and traits desired in a president for the University. Additionally, an ad has been placed in several venues and is drawing inquiries. The search committee includes all of the members of the Board of Trustees, Cindy Alexander, Chair of the University Foundation Board and Governor Norm Tripp representing the Board of Governors. Three subcommittees were established, Credentials, Compensation and Campus/Community Visits and have begun their work.

The Credentials Subcommittee met on March 7, 2014 and discussed the traits that the members believe are important for the candidates. The Subcommittee will rank the traits in the order of importance and submit the information to the Search Consultant to guide his work.

The Search Committee has also retained the Association of Governing Boards to conduct a compensation study. This study will assist with the contract negotiations for the president.

### 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.

## Monthly Update to the Board of Governors

### 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. Accreditation Assessment Training/Workshop for our faculty and Unit leaders is scheduled for 3/12/2014.

### 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.

## Monthly Update to the Board of Governors

As of March 7, 2014 Florida Polytechnic University has received over 9,263 inquiries (see Table 1) for undergraduate programs and 212 inquiries for graduate programs. Inquiries come from all 50 states. To date 759 students have been admitted. The admitted students have an average GPA of 3.9, an SAT score of 1800 and an ACT score of 26.

**Table 1: 2014 Undergraduate Admissions Statistics**

| <b>2014 Undergraduate Admissions Statistics</b><br><b>Updated March 7, 2014</b> | <b>QTY</b> |
|---|------------|
| Inquiries   | 9,263      |
| Applications Completed  | 2,722      |
| Applications Started  | 1,107      |
| Students Admitted   | 759        |
| Prefer On-campus Housing  | 1,876      |
| Prefer Off-campus Housing   | 842        |
| Inquiries from Florida  | 5,377      |
| Inquiries from other states   | 3,070      |

The University has received 2,722 undergraduate student applications. Of the 2,722 undergraduate applicants, 2,174 are First Time-In-College, 509 are transfer students and 39 other. In Tables 2 & 3, these applications are broken down by major and concentration for undergraduate and graduate inquiries.

Among current applicants, 1,876 expressed an interest in on-campus housing and 842 prefer off-campus housing.

**Table 2: 2014 Undergraduate Applications by Major with Concentration**

Last Updated 3/7/14

| <b>Major</b>   | <b>Count</b> |
|--|--------------|
| Computer Science and Information Technology/Cyber Gaming   | 496          |
| Industrial Engineering/Nanotechnology                      | 242          |
| Computer Science and Information Technology/Cyber Security | 287          |
| Advanced Technology/Health Informatics                     | 216          |
| Computer Engineering/Machine Intelligence                  | 220          |
| Electrical Engineering/Control Systems                     | 116          |

## Monthly Update to the Board of Governors

|   |     |
|---|-----|
| Science/Logistics   | 158 |
| Advanced Technology/Big Data Analytics and Cloud Virtualization   | 116 |
| Computer Engineering/Digital Logic Design                         | 118 |
| Computer Engineering/Embedded System Design                       | 102 |
| Industrial Engineering/Geometric Dimensioning and Tolerancing     | 75  |
| Industrial Engineering/Multifunctional Materials                  | 114 |
| Computer Science and Information Technology/Information Assurance | 96  |
| Electrical Engineering/Digital Systems                            | 83  |
| Electrical Engineering/Electrodynamics                            | 97  |
| Electrical Engineering/Magnetics                                  | 38  |
| Science/Materials and Supply Chain                                | 40  |
| Electrical Engineering/Semiconductors                             | 22  |
| Industrial Engineering/Motion Control                             | 78  |
| Undecided   | 9   |

**Table 3: 2014 Graduate Applicants by Major\***  
Last Updated 3/7/14

| Major                                | Count |
|--------------------------------------|-------|
| Masters of Engineering               | 14    |
| Masters of Innovation and Technology | 16    |
| Not Indicated                        | 2     |

\*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.

## Monthly Update to the Board of Governors

**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.

### Florida Polytechnic University Faculty

The University has hired 15 full-time faculty with a goal of having approximately 50 full-time and part-time faculty under contract before classes begin in August of 2014. A list of key faculty under contract is provided in Table 4.

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.

**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

## Monthly Update to the Board of Governors

**Table 4: Florida Polytechnic University Faculty**

| Faculty Member Name        | Degree                                    | Concentrations   |
|----------------------------|---|--|
| Robert I. MacCuspie, Ph.D. | Industrial Engineering                    | Nanotechnology and Multi-Functional Materials            |
| Jorge Vargas, Ph.D.        | Electrical Engineering                    | Magnetics and Semiconductors                             |
| Ryan Integlia, Ph.D.       | Advanced Technology                       | Health Informatics                                       |
|                            | Electrical Engineering                    | Digital Systems and Electrodynamics                      |
| 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   |
| Willy Wriggers, Ph.D.      | Advanced Technology                       | Health Informatics, Cloud Virtualization                 |
| Elhami Nasr, Ph.D.         | Mechanical & Industrial Engineering       | Engineering Management and Motion Intelligence           |
| Sesha Srinivasan, Ph.D.    | Mechanical & Industrial Engineering       | Nanotechnology and Physics                               |

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.

## Monthly Update to the Board of Governors



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.

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" MacCuspie 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. MacCuspie, 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, MacCuspie also mentors undergraduate students. He will be instrumental in developing curriculum and establishing a Center for Nanotechnology to which he has been appointed director.

## Monthly Update to the Board of Governors

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.

MacCuspie 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 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



## Monthly Update to the Board of Governors

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.

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. Willy Wriggers** is a scientist-scholar who has authored more than 60 research articles and four significant software packages. He will join Florida Polytechnic full time in August 2014. He has worked as a scientist at D.E. Shaw Research, a privately funded institute in New York City, and as an Associate

## Monthly Update to the Board of Governors

Professor of Biophysics and Computational Biomedicine at Weill Cornell Medical College in New York. He also served as a professor with tenure at the School of Biomedical Informatics at the University of Texas Health Science Center in Houston, where he worked from 2003-2007. In San Diego, California, he held postdoctoral positions in electron microscopy (The Scripps Research Institute) and theoretical chemistry (University of California, San Diego). Dr. Wriggers' research includes a 12-year grant from the National Institutes of Health. He also served as principal investigator of an international consortium supported by the Human Frontier Science Foundation.

**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 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

## Monthly Update to the Board of Governors

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

**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.

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**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

Florida Poly has established a College of Engineering and a College of Innovation & Technology. The University offers six baccalaureate degrees in each of the two colleges and they are 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.

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

| COLLEGE OF ENGINEERING  |
|---|
| <b>Bachelor of Science Degrees</b>  |
| <b>COMPUTER ENGINEERING</b><br><i>with one of the following concentrations</i><br><i>Digital Logic Design</i><br><i>Embedded System Design</i><br><i>Machine Intelligence</i>   |
| <b>ELECTRICAL ENGINEERING</b><br><i>with one of the following concentrations</i><br><i>Control Systems</i><br><i>Digital &amp; Hybrid Systems</i><br><i>Electrodynamics</i><br><i>Magnetics</i><br><i>Semiconductors</i>                        |
| <b>MECHANICAL &amp; INDUSTRIAL ENGINEERING</b><br><i>with one of the following concentrations</i><br><i>Geometric Dimensioning &amp; Tolerancing</i><br><i>Motion Intelligence</i><br><i>Multifunctional Materials</i><br><i>Nanotechnology</i> |
| <b>Master of Science Degree</b>   |
| <b>ENGINEERING</b>  |

| COLLEGE OF INNOVATION & TECHNOLOGY  |
|---|
| <b>Bachelor of Science Degrees</b>  |
| <b>ADVANCED TECHNOLOGY</b><br><i>with one of the following concentrations</i><br><i>Big Data Analytics</i><br><i>Cloud Virtualization</i><br><i>Health Informatics</i>              |
| <b>COMPUTER SCIENCE &amp; INFORMATION TECHNOLOGY</b><br><i>with one of the following concentrations</i><br><i>Cyber Gaming</i><br><i>Information Assurance &amp; Cyber Security</i> |
| <b>SCIENCE &amp; TECHNOLOGY MANAGEMENT</b><br><i>with one of the following concentrations</i><br><i>Logistics</i><br><i>Materials &amp; Supply Chain</i>                            |
| <b>Master of Science Degree</b>   |
| <b>INNOVATION &amp; TECHNOLOGY</b>  |

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### 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.

Work has begun on the formation of a specific Vision and Mission Statement for the Student Affairs department, which supports the overall mission and vision of the University set forth by the Board of Trustees. Brainstorming has commenced on developing a set of core values, so that we may apply resources effectively to achieve the mission of Florida Poly.

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.

**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

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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.

**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.

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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.

**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 March 7, 2014, 39 companies have signed partnership agreements with Florida Poly. Partner companies range from Microsoft and Harris Corporation to NanoComposix (a young start-up)

|  |   |
|--|---|
| 352 Media Group                            | Lockheed Martin Missiles and Fire Control |
| A-C-T Environmental & Infrastructure, Inc. | Madrid Engineering Group                  |
| Apex IT                                    | Microsoft                                 |
| ASI Chemical, Inc.                         | NanoComposix, Inc.                        |
| Bright House Networks                      | NanoTecNexus                              |
| BRPH                                       | Omniscient Analytics, Inc.                |
| Central Florida Development Council        | Pharmaworks, Inc.                         |
| Chastain Skillman                          | Prolexic Technologies                     |
| CNP  | Protected Trust, LLC                      |
| Colo5, LLC                                 | QuantumSphere, Inc.                       |
| Digital Architecture                       | Saddle Creek Logistics Services           |
| DSM Technology Consultants                 | Sparxoo Agency                            |
| Electronic Arts Tiburon                    | Steripack                                 |
| Greenovative Homes, LLC                    | Stryker                                   |
| GreenTechnologies, LLC                     | Sun-N-Fun                                 |
| Harris Corporation                         | Tampa Port Authority                      |
| JBT Foodtech                               | The Story Companies                       |
| JDCPhosphate, Inc.                         | Welldyne                                  |
| Lakeland Economic Development Council      | Winter Haven Economic Development Council |
| Lakeland Linder Regional Airport           |   |



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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.

**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

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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

### **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

### **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

### **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

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### 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

#### **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.

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.

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** (February 2014)

| <b>Component</b>  | <b>Progress</b> | <b>Budget</b>    | <b>Balance</b>   |
|---|-----------------|------------------|------------------|
| IST Building <sup>a</sup>                               | On Schedule     | \$78.3 M         | \$15.1 M         |
| Site & Infrastructure                                   | On Schedule     | \$40.0 M         | \$12.0 M         |
| Campus Control Center                                   | On Schedule     | \$ 3.5 M         | \$ 0.3M          |
| Classroom, laboratory – furniture, fixtures & equipment | In Process      | \$ 7.0 M         | \$ 7.0 M         |
| Contingency   | N/A             | \$ 1.9 M         | \$ 1.6 M         |
| <b>TOTALS</b>   | <b>N/A</b>      | <b>\$134.4 M</b> | <b>\$ 36.0 M</b> |

<sup>a</sup>Includes engineering, design, land and other soft costs that were on separate lines in previous reports.

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Innovation Science & Technology Building (October 2013)

Florida Polytechnic University Campus (October 2013)

### 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

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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. 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.



## Implementation Tracking Report (February 2014)

| Implementation Status Summary        |           |           |                    |               |
|--------------------------------------|-----------|-----------|--------------------|---------------|
| Criteria                             | Issues    | Completed | Good Progress      | Slow Progress |
| A. STEM Academic Programs            | 5         | 2         | 2                  | 1             |
| B. Student Enrollment                | 4         |           | 2<br>(1 not begun) |               |
| C. Administrative Capability         | 2         |           | 2                  |               |
| D. Accreditation                     | 5         | 1         | 1<br>(3 not begun) |               |
| E. Discipline Specific Accreditation | 1         |           | (Not begun)        |               |
| F. Facilities & Construction         | 3         |           | 3                  |               |
| <b>TOTAL</b>                         | <b>20</b> | <b>2</b>  | <b>12</b>          | <b>1</b>      |

**Legend:**    ✓ Completed    ● Good Progress    ● Slow Progress    ● Poor Progress

| Criterion A – Initial Development of New STEM Programs  |   |                    |
|---|---|--------------------|
| Statutory Due Date: 12/31/2016  |   | Progress Indicator |
| <b>A1</b> - New degree program proposals approved by the Florida Polytechnic university Board of Trustees                                 | <b>January 2014: COMPLETED</b> Program proposals were considered and approved by the Academic Affairs Committee of the Florida Polytechnic University Board of Trustees.  | ✓                  |
| <b>A2</b> - New degree program proposals reviewed by BOG staff for inclusion in the SUS Academic Degree Program Inventory.                | <b>February 2014:</b> BOG compliance review of baccalaureate and master's program proposals is in progress. Florida Poly staff has resubmitted the new degree program proposals to address very minor issues identified by BOG staff. | ✓                  |
| <b>A3</b> – Prerequisite courses approved by the Oversight Committee of the Articulation Coordinating Committee (ACC) and the ACC itself. | <b>February 2014:</b> BOG compliance review will include preparation of agenda items for the Oversight Committee of the ACC to approve common prerequisite courses.   | ●                  |
| <b>A4</b> – All college credit courses are entered into the Statewide Course Numbering system.  | <b>February 2014:</b> In progress by Florida Polytechnic University academic staff. This process is managed by the Articulation Office in the Florida Department of Education.  | ●                  |



|   |   |  |
|---|---|--|
| <b>A5</b> – Program faculty and general education faculty are in place. | <b>February 2014:</b> Faculty recruitment for the degree programs and general education courses is ongoing. Sufficient program faculty are in place to develop curricula. Interviews are underway to hire additional faculty. |  |
|---|---|--|

| <b>Criterion B – Enrollment of 1,244 FTE</b>          |  |                           |
|---|--|---------------------------|
| <b>Statutory Due Date: 12/31/2016</b>                 |  | <b>Progress Indicator</b> |
| <b>B1</b> – Total students enrolled                   | <b>Fall 2014:</b> Status Reporting Date (Classes begin Fall 2014)<br><b>Spring 2015:</b> Status Reporting Date<br><b>Summer 2015:</b> Status Reporting Date<br><b>Fall 2015:</b> Status Reporting Date<br><b>January 2016:</b> Status Reporting Date<br><b>Summer 2016:</b> Status Reporting Date<br><b>Fall 2016:</b> Status Reporting Date | TBD                       |
| <b>B2</b> – Number of completed applications received | <b>February 2014:</b> 2,556 <sup>1</sup> (exceeds the goal for number of applications )<br><b>March 2014:</b> Status Reporting Date<br><b>April 2014:</b> Status Reporting Date<br><b>May 2014:</b> Status Reporting Date  |                           |
| <b>B3</b> – Number of students admitted               | <b>February 2014:</b> 715 <sup>1</sup> (60% of the goal for the number of students expected to be admitted)<br><b>March 2014:</b> Status Reporting Date<br><b>April 2014:</b> Status Reporting Date<br><b>May 2014:</b> Status Reporting Date  |                           |



| Criterion B – Enrollment of 1,244 FTE          |  |   |
|--|--|---|
| B4 –Actual enrollments in each degree program. | August 2014: Status Reporting Date (Classes begin Fall 2014) | ● |

<sup>1</sup>As of February 26, 2014

| Criterion C – Administrative Capability  |   |                    |
|--|---|--------------------|
| Statutory Due Date: 12/31/2016   |   | Progress Indicator |
| C1 – Capability to administer financial aid, admissions, and student support.                                | Fall 2014: Florida Polytechnic University has established offices for financial aid, admissions and student services. | ●                  |
| C2 – Capability to administer information technology, and finance & accounting with internal audit function. | Fall 2014: Florida Polytechnic University has a shared services agreement with UF and has hired a CIO.                | ●                  |

| Criterion D - Accreditation                         |  |                    |
|---|--|--------------------|
| Statutory Due Date: 12/31/2016                      |  | Progress Indicator |
| D1 – Pre-Application Workshop                       | December 2013: A Florida Polytechnic University team attended the pre-accreditation workshop in Atlanta.   | ✓                  |
| D2 - Submit application for regional accreditation. | August 2015: Florida Polytechnic University has engaged a technical advisor to assist with preparing the application for regional accreditation. | ●                  |
| D3 – Regional accreditor Candidacy site visit.      | June 2015: Status Reporting Date   | TBD                |
| D4 – Regional accreditor site visit.                | June 2016: Status Reporting Date   | TBD                |
| D5 – Regional accreditor decision on accreditation. | December 2016: Status Reporting Date   | TBD                |

**Criterion E – Seek Discipline Specific Accreditation**





| Statutory Due Date: 12/31/2016                       |                                  | Progress Indicator |
|--|----------------------------------|--------------------|
| E1 – Contact discipline specific accrediting bodies. | Fall 2014: Status Reporting Date | TBD                |

| Criterion F – Facilities and Infrastructure  |  |                    |
|--|--|--------------------|
| Statutory Due Date: 12/31/2016   |  | Progress Indicator |
| F1 – Complete the Innovation, Science and Technology Building for Fall 2014 start of classes.      | <p><b>February 2014:</b> On time and within budget.</p> <ul style="list-style-type: none"> <li>Construction phase substantially complete by 6/30/2014</li> <li>Owner move-in 7/1/2014</li> <li>Final completion by 7/30/2014</li> <li>Site substantial completion 8/29/2014</li> <li>Site final completion 10/31/2014</li> </ul> <p><b>June 2014:</b> Status Reporting Date</p> <p><b>August 2014:</b> Status Reporting Date</p> | ●                  |
| F2 – Complete the Residence Hall for 219 students.   | <p><b>February 2014:</b> On time and within budget. Public/Private partnership.</p> <ul style="list-style-type: none"> <li>Final completion/move-in by 8/18/2014*</li> <li>School starts 8/25/2014</li> </ul> <p>*contingency move-in plan in place.</p> <p><b>June 2014:</b> Status Reporting Date</p> <p><b>August 2014:</b> Status Reporting Date</p>   | ●                  |
| F3 – Begin construction of Phase I of Wellness Center and other site facilities or infrastructure. | <p><b>Spring 2014:</b> Planning has begun.</p> <p><b>Fall 2014:</b> Status Reporting Date</p>  | ●                  |

TBD – To Be Determined (no data or information currently exists to make a determination about progress)

## Florida Polytechnic University Cost Per Student

### Estimated Cost to the State Per Student and Per FTE

| FY      | Projected                 | Projected              | \$ Per         | Projected        | \$ Per FTE     |
|---------|---------------------------|------------------------|----------------|------------------|----------------|
|         | <sup>1</sup> Base Funding | <sup>2</sup> Headcount | Student        | <sup>2</sup> FTE |                |
| 2014-15 | \$30,613,290              | 500                    | \$61,227       | 369              | \$82,963       |
| 2015-16 | \$30,613,290              | 1,001                  | \$30,583       | 710              | \$43,117       |
| 2016-17 | \$30,613,290              | 1,447                  | \$21,156       | 981              | \$31,206       |
| 2017-18 | \$30,613,290              | 1,882                  | \$16,266       | 1,264            | \$24,219       |
| 2018-19 | \$30,613,290              | 2,274                  | \$13,462       | 1,488            | \$20,573       |
| 2019-20 | \$30,613,290              | 2,709                  | \$11,301       | 1,784            | \$17,160       |
| 2020-21 | \$30,613,290              | 3,175                  | \$9,642        | 2,109            | \$14,516       |
| 2021-22 | \$30,613,290              | 3,677                  | \$8,326        | 2,447            | \$12,511       |
| 2022-23 | \$30,613,290              | 4,241                  | \$7,218        | 2,819            | \$10,860       |
| 2023-24 | \$30,613,290              | 4,861                  | <b>\$6,298</b> | 3,223            | <b>\$9,498</b> |

<sup>1</sup>Includes Anticipated General Revenue and Lottery

<sup>2</sup>Source: Florida Polytechnic University Enrollment Projection Model (10/11/2013)

### Total Estimated Cost Per Student and Per FTE

| FY      | Projected                 | Projected            | Total Projected | Projected              | \$ Per          | Projected        | \$ Per FTE      |
|---------|---------------------------|----------------------|-----------------|------------------------|-----------------|------------------|-----------------|
|         | <sup>1</sup> Base Funding | <sup>2</sup> Tuition | Funding         | <sup>3</sup> Headcount | Student         | <sup>3</sup> FTE |                 |
| 2014-15 | \$30,613,290              | \$2,004,539          | \$32,617,829    | 500                    | \$65,236        | 369              | \$88,395        |
| 2015-16 | \$30,613,290              | \$3,196,426          | \$33,809,716    | 1,001                  | \$33,776        | 710              | \$47,619        |
| 2016-17 | \$30,613,290              | \$4,699,327          | \$35,312,617    | 1,447                  | \$24,404        | 981              | \$35,997        |
| 2017-18 | \$30,613,290              | \$6,332,136          | \$36,945,426    | 1,882                  | \$19,631        | 1,264            | \$29,229        |
| 2018-19 | \$30,613,290              | \$7,717,803          | \$38,331,093    | 2,274                  | \$16,856        | 1,488            | \$25,760        |
| 2019-20 | \$30,613,290              | \$9,615,102          | \$40,228,392    | 2,709                  | \$14,850        | 1,784            | \$22,550        |
| 2020-21 | \$30,613,290              | \$11,561,114         | \$42,174,404    | 3,175                  | \$13,283        | 2,109            | \$19,997        |
| 2021-22 | \$30,613,290              | \$13,863,398         | \$44,476,688    | 3,677                  | \$12,096        | 2,447            | \$18,176        |
| 2022-23 | \$30,613,290              | \$16,421,142         | \$47,034,432    | 4,241                  | \$11,090        | 2,819            | \$16,685        |
| 2023-24 | \$30,613,290              | \$19,318,428         | \$49,931,718    | 4,861                  | <b>\$10,272</b> | 3,223            | <b>\$15,492</b> |

<sup>1</sup>Includes Anticipated General Revenue and Lottery

<sup>2</sup>Uses undergraduate tuition of \$105.07 and graduate tuition amount of \$385

<sup>3</sup>Source: Florida Polytechnic University Enrollment Projection Model (10/11/2013)