School of Science
Fall 2017 Faculty Assembly
Friday, December 1, 2017 9 AM ---10:15 AM
Venue: IT 252

Attendees: Simon Rhodes, Doug Lees, Jane Williams (Deans Office); Nick Berbari, Bonnie Blazer-Yost, James Marrs, Kathy Marrs, Steve Randall, Randall Roper, Xianzhong Wang, John Watson, Michael Yard, Tabreha Hardy (Biology); Keith Anliker, Brenda Blacklock, Gina Londino, Nick Manicke, Rob Minto, Lin Zhu, Partha Basu, Lei Li, Donald Boyd, Hongqiu Zhao (Chemistry and Chemical Biology); Lingma Acheson, Shiaofen Fang, Zou Xukai, Mihran Tuceryan, Snehasis Mukhopadhyay, Rajeev Raje (Computer and Information Sciences); Andy Barth, Jennifer Nelson, Kathrin Maneiro, Bill Gilhooly (Earth Sciences); Jyoti Sarkar, Meghan Tonman, Carl Cowen, Evgeny Mukhin (Math); Horia Petrache, Jing Liu, Zhe-Yu Jeff Ou, Gautam Vemuri, Aparajita Sengupta (Physics); Leslie Ashburn-Nardo, Tina Chen, Debora Herold, Dennis Devine, Evava Peitri, Peggy Stockdale (Psychology)

Excused: David Skalnik, Yogesh Joglekar

1. Call to order and adoption of the agenda
   • Randall Roper conducted the meeting.
   • Agenda was distributed via email and at the meeting
   • Agenda approved

2. Approval of Minutes of Spring 2017 Faculty Assembly (April 21, 2017)
   • Minutes were distributed via email and at the meeting.
   • Minutes were approved (1 abstain)

3. Reports from the Dean’s administration
   • Associate Dean David Skalnik (Absent due to family issue, Dean Rhodes reported instead)
     • The number of research proposal submission in this cycle is 71, down a little bit (11%); the dollar of submission is $43.8 million, same as last year
     • The number of award received is 32, up 60%. Dollar amount awarded is $5.2 million, up 189%.
     • The ICR is $1.5 million, up 199%
     • Research expenditures are $3.3 million, up 10%.

   • Associate Dean Doug Lees
     • The steering committee representatives are expected to have provided budget updates from committee meetings to their home departments.
     • Our expenditures are down and our RCR is up. I am optimistic for the budget situation in spring.
     • New building will be named MDRB (multidisciplinary research building)
     • As announced at fall convocation SOS had $1.5M in the campus SELB account –
$700K was cashed by reducing the FY18 payment from $1.4M to $700K – we would look further (origin and reason) into the overage in this account.

- A “new” SELB Proforma: The previous proforma, had us paying 77.1% of $600K from year 4 onward for R&R, was reduced to 77.1% of $255K – it is dropped to 77.1% of $202.5K from here on – Operation costs were also lower than expected and kept constant at that level.

- New SELB Payments: Our cost for SELB in FY 18 will be $890,894 – Future annual costs will go up (inflation in operating costs/2% per yr.) to a maximum payment of $1,089,796 in 2032, the year the bonds are paid off – Savings on the current payment level will range from $509,106 to $310,204 from FY 18 through FY 32.

- Our account balance has been updated and now stands at $2,116,062 – Our FY 18 payment of $700K is only $190,894 shy of a full payment and will leave an account balance of $1,925,078.

- Preliminary Information on MDRB: General Data: 97,662 GSF (gross square feet)/ 63,480 ASF (assignable square feet), Cost: $44M (est.), $22M bonded at 4.75%
  SOS: 22,640 ASF, 21% of costs; 35.7% of space
  E&T: 17,540 ASF, 16% of costs; 27.5 % of space
  Informatics: 0 ASF, 7% of costs; 0% of space
  Campus*: 10,750 ASF, 56% of costs; 19.9% of space
  Collaborative Space: 12,640 ASF, costs shared; 19.9% of space
*Space is for classrooms and costs include generous subsidies for the Schools.

- Looking Ahead: SOS payments start at $770,573* in FY 19 and go to $1,122,579 in FY38 – *without the campus subsidy our costs would have been $1.33M in FY 19!

- Assuming our first MDRB payment will be due in FY 19, the total building budget will be $905,273 (SELB) plus $770,573 (MDRB) = $1,675,846 (or $275,846 more than the $1.4M we were paying for SELB).

- Associate Dean Jane Williams
  - The gen ed review process will be happening during the next 5 years. All classes listed as gen ed classes across campus will undergo this review process. It is set for the 2020 class reaccreditation.
  - It is an involving process. Thanks to all of you already going through the process.
  - There has been ambiguity and lack of clarity involved in this review process.
  - Every time at the UAC meeting, I listened to what was discussed and sent suggestions to our faculty to make sure they have as much as information as they can.
  - Thank you for your patience in this gen ed review process.
  - Kate Thedwall will retire at the end of this year and be hired back as a consultant for the gen ed review.
  - Some information is available at the Science box site.
  - The content of the course may not be the focus of the review. I am still observing the focus of the review and will let faculty know.
  - Four outcomes are expected from the review: approved, approved with notes, revise and resubmit, and disapprove.
  - Disapprove is a big deal. It means that the class will be taken off the list and will also potentially impact the department financially.
- CTL has been helpful and is offering workshops to help faculty prepare for the gen ed review process.
- Lauren Kay, the new market director, will be offering dean scholarship day in late January. We will invite students to campus, break them into groups according to their intended majors and arrange them to visit various departments. These are strong students. ~ 35% hit rate is usually found for the dean scholarships we offered; we hope to make it better.
- We should have two open positions (a new market recruiting and a new web person) filled by early January.
- EVC Johnson made me review PULs which is complicated. We are working to make the PULs shorter to make it more easily understandable to our students. It will be a process open for faculty to make inputs.

- Dean Simon Rhodes
  - My thanks to Drs. Roper and Li for their great faculty leadership
  - My thanks to the ADs for their great work – representing us and fighting for us, saving us money.
  - Reviewed a lot of information at fall convocation so if you missed that please ask for a copy of the materials.
  - A reminder (because floods and hard drive failures do happen)
    - Personal property – don’t keep it in your office
    - Use Box as a syncing and unlimited backup tool
    - Do not use private e-mail such as gmail for work business
    - Please use Canvas - EVC requirement – has important content
  - Since we last met.
    - The School of Science awarded a record 774 STEM degrees – 605 bachelor’s degrees, 130 master’s degrees and a 39 doctoral degrees. With the vast majority of our undergraduate students being from Indiana and staying in our State, the School is very proud of the remarkable impact that our graduates have on our Indiana economy and quality of life.
  - The outstanding innovative work of Science faculty in education and research has been recognized by some very prestigious awards this year:
    - Dr. Alexander Its was awarded the IU President’s Medal;
    - Dr. Kathy Licht was elected Fellow of Geological Society of America;
    - Dr. Jeff Ou was elected a Fellow of the American Physical Society and a Fellow of the Optical Society; and
    - Dr. Pratibha Varma-Nelson was elected a Fellow of the American Chemical Society and she will also receive the prestigious George C. Pimentel Award in Chemical Education in 2018. Congratulations to these faculty!
    - There are many more and congratulations to our many faculty who have national and international leadership positions.
  - Thanks to all of the faculty who make philanthropic gifts to help the success of our students and our research. The matching program in the Bicentennial fundraising campaign is proving a strong incentive. We have some amazingly thoughtful colleagues
  - Philanthropy – the campaign ends in Dec 2019 – now extended to 2020

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Philanthropy $3,377,235 84.43% of $4M goal
NGG $6,303,347 157.58% of $4M goal
Total Raised $9,680,582 121.01%
• Upcoming $1.425m gifts in pipeline (FYI) which we will plan to close before 12/31 that will put our Philanthropy dollars over goal: $4.8m = 120%
  ➢ New Goals!
• With philanthropic support from Duke Energy, our Center for Earth and Environmental Science has had a great year of outreach to Indiana elementary and middle schools to bring hands-on experiences to Indiana youth so that they can get excited about science and STEM careers and realize their potential
• I have asked the Steering and Unit committees should work together to review and update our School P&T criteria. For example, the IU President’s recent speech asks us to review criteria for teaching excellence. There are also other areas to update.
• Road safety – our loss of a Science student on campus this year
• LD SELB gap safety
• Let’s remember our colleague Debbie Allard
• The School of Science and the School of Engineering & Technology continue to partner on the STEM Floor Residential-Based Learning Community in the new North Hall residence hall. 156 students, the largest one on campus. The floor hosts a Women in Science & Engineering (WISE) Wing to better support women in STEM.
• Student success - PREPS – Science Careers/advising/research/internships
  ➢ **835 students served** in one-on-one student advising sessions
  ➢ New applied sciences internship program
  ➢ 230 employers brought to campus for career fairs and interviews
• Enrollment is stable – watching for spring
• Thanks to the work our recruiters are doing, our majors numbers are strong
• Banded tuition – probably good for students overall but cost us in summer tuition
• Midwest exchange. Expensive for us in short term but will likely be good in long haul. Working hard to optimize the way that this is advertised.
• IUPUI Commencement at the football stadium – will move to Saturday!
• Science on Tap 17-18
  ➢ Scott Orr a big success talking about cybersecurity
  ➢ At Blind Owl Brewery
    5014 E 62nd Street
    January 18, April 19, July 19
    (happy hour from 5:30-6:30, talks beginning at 6:30)
  ➢ Andy Harris, Cam Macris, Eva Pietri
• **New building – Good deal - location/parking**
  ➢ **Fall 19 or Spring 20 open??**
  ➢ **IU Trustees vote today**
  ➢ **Details from Doug**
• We only meet as a group about 3 times a year – fall convocation and then fall and spring faculty meetings. I want to take this opportunity again to thank you for your work – I am proud to be your colleague.

4. New business:

• Diversity (By Leslie Ashburn-Nardo)
  • Chris Lapish noticed that there is no women rep in the Steering committee, therefore he brought out the diversity issue
• It is not because women are not doing their fair share of service
• In 2014, women were averaging 0.5 hr more service activity than men. Data are based from IUPUI and IUB.
• Women are doing more internal service, which is not as noticeable as external service. They are more likely to be asked to do more not-as-promotable service jobs.
• Having more women in decision-making positions is especially beneficial for organizations including school of science; doing so reflects the values of our school.
• Potential solutions include: some rotation policy for some committees, increase the recognition of devalued tasks/eliminate the “unimportant” committee/tasks together
• Simon started the diversity council and routinely attended the council meetings and is committed to increase diversity in the school
• There is no women representative in the Steering committee. One possible solution is to include a female lecturer. This requires change of school bylaws and is under discussion.
• We may need to do a better job not only just recruiting women into tenure-track positions, but also retaining/promoting them into higher academic ranks.

• Professor of teaching/non-tenure track (NTT) faculty (By John Watson)
  • For a third year in a row, IUPUI faculty council (IFC) has been considering to include NTT faculty as voting members of IFC, which has been considered as an important issue
  • The committee is committed to maintain the 60/40 split ratio (at least 60% as tenure-track faculty) as written in the IUPUI IFC constitution.
  • Units having >3 unit representatives would be allowed to change the bylaws so that NTT faculty can be elected under the 60/40 ratio.
  • The executive committee has 8 members on a 2-year term, 2 of them is proposed to be reserved for NTT faculty members.
  • The major concern at IFC about this is the research issue with NTT faculty
  • President McRobbie emphasized teaching at IU in his “State of the University” address and brought out the ideas of “professor of teaching” and “promotion based on teaching”.

5. SOS Standing Committee Reports

**SCHOOL OF SCIENCE STANDING COMMITTEE REPORTS FALL 2017**

**Unit Committee:**

The SoS Unit Committee met once virtually in August and in-person on 10/28/17. During its virtual meeting, it selected a Chair (Rajeev Raje), a Vice-Chair (Eric Long), and the SoS Representative to the Campus Committee (Michelle Salyers). During the second meeting, the Committee discussed all the P&T cases in the SoS and has submitted its reports, about almost all these cases, to Dean Rhodes.

**Research Committee:**
Awarded six Purdue Research Foundation International Travel Grants

**Graduate Education Committee:**

Approved a new MS program from the Department of Computer and Information Science: Data Science

Approved a new MS concentration from the Biology Department: Biology for Educators

Approved administratively moving the Forensics Program out of the Department of Chemistry and Chemical Biology and to the School of Science

**Undergraduate Curriculum Committee:**

During the semester, we met three times. The following new courses and changes were approved:

**New courses**
- BIOL-N207 Physiology for Health Care Management, online course
- BIOL-N211 Anatomy for Health Care Management, online course
- BIOL-N226 Wildflowers and Ferns of Indiana Forests
- CSCI 43300 Introduction to the Internet of Things
- CSCI 48900 Data Science
- A series of professional training courses for pre-professional students (SCI-I197 Exploring Health Professions; SCI-I297 Health Professions Shadowing; SCI-I397 Pre-Professional Planning Seminar; SCI-I398 Medical School Preparation).
- CHEM-C475 Approaches in Chemical Biology
- PSY-B246 Studies in Theories of Personality

**New lab courses** were generated in several instances by separating lab content from an existing lecture/lab course:
- FIS 30601 Forensic Microscopy Lab from FIS 30600 Forensic Microscopy
- FIS 50601 Forensic Microscopy Lab from FIS 50600 Forensic Microscopy
- PSY-B306 Statistics Lab and PSY-B312 Research Methods in Psychology Lab were separated from PSY-B305 Statistics and PSY-B311 Research Methods in Psychology, respectively. B306 and B312 will be required courses for BA and BS Psychology majors.

**Prerequisites were adjusted**
- CSCI 23000 Computing I
- MATH 35100 Elementary Linear Algebra
- BIOL-K350 Comparative Animal Physiology

**Courses Renamed**
- SCI-I395 from “Timmy Global Health Study Abroad” to “Science and Health Professions
Study Abroad", to change the course to a variable-title, topics course that is variable credit and repeatable for credit.

The school policy for academic dismissal due to non-progress was discussed.