



## **Nexus Maximus III**

### **Personal Health – Innovation, Data and Empowerment**

**September 9-12<sup>th</sup>, 2016**

How does innovation and data empower our health future?

Ubiquitous sensors, unprecedented amounts of data, enhanced distance communication, and explosive growth in new technology are rapidly changing our potential health futures. The goal is to realize maximum benefit from this technology revolution, while simultaneously protecting privacy, dignity and a humanistic ethos. While this is an area with endless possibilities for innovation, it will require the optimal balance of high-tech and high-touch, and information sharing and privacy.

**Here is an opportunity to work with and learn from colleagues – fellow faculty, students, and industry partners – to develop new innovations in personal health.**

Nexus Maximus is Philadelphia University's signature annual event that brings together a broad range of disciplines to work in teams on big problems and opportunities. It is an excellent example of Nexus Learning, our unique and award winning approach to education – learning that is active, collaborative, engaged in the real world and infused with the liberal arts.

This fast-paced “sprint” project is designed to provide students a unique learning opportunity while solving a challenging real-world problem, all while having fun. We bring together students from across PhilaU programs, as well as students from other institutions such as Aalto University in Finland, KEA in Copenhagen, Pace University in New York, and the Paris-Est d. School in France. The first two years of Nexus Maximus, held each September, have engaged over 600 students in total working together in teams of 4-6 to learn innovation processes and develop new concepts to address a global problem - Aging in Place and Adolescent Health. We have been fortunate to receive ongoing support from our sponsor the past two years, Johnson and Johnson.

The 2016 event will take place from September 9<sup>th</sup>-12<sup>th</sup>. As in the previous years, students will be broken into teams blending from first year to graduate level, with diverse disciplines on each team, and tasked with tackling a challenging global problem. This year the students will address the challenge “**Personal Health – Innovation, Data and Empowerment.**” They will evaluate and seek innovation in the area of personal health. In today's era of connected and wearable technology, information about every aspect of our health, personal and social lives are being collected. Teams will explore opportunities to leverage that data in meaningful ways that benefit and protect individuals and society. The team project work will be supplemented with workshops on innovation, entrepreneurship, and content relevant to the theme, delivered by

experts. Visiting students will be housed in dorms or off-campus with PhilaU students, and visiting faculty will have the opportunity to mentor teams and lead workshops.

To read more about the 2015 Nexus Maximus, please visit the website - <http://www.nexusmaximus.com/>

If you are interested in participating or in finding out more, please email [widderd@philau.edu](mailto:widderd@philau.edu), [bakerm@philau.edu](mailto:bakerm@philau.edu), [frostens@philau.edu](mailto:frostens@philau.edu) or [ashleyj@philau.edu](mailto:ashleyj@philau.edu).

Ways you can be involved:

1. **Include Nexus Maximus in your course.** Many faculty are integrating Nexus Maximus directly into their curriculum as a vehicle to introduce concepts and achieve learning outcomes.
2. **Lead a workshop.** A key part of the Nexus Maximus experience is the workshop series. The goal of these sessions is to provide students with **tools** and **content** to enrich their project and education experience. **Tools** include anything relevant to innovation – including ideation, program framing, teamwork, collaboration, storytelling, and beyond. **Content** includes subject matter relating to the challenge at hand (personal health and data), including demographic statistics, health concerns, societal attitudes, legal issues, ethical questions, sustainability, and existing systems and thinking.

The workshops can be interactive, or follow a TED style short lecture format. Subject matter can be diverse and ideally people running the workshops are presenting something of particular interest to them. Workshops are generally 20-45 minutes long, but we can accommodate other formats. Some workshops have been highly structured and formal, others have been conversational and freeform. By design, only a subset of students will attend any given workshop, and will be concurrent with the teams working on their projects, so in this way both can occur simultaneously. Typically workshops will have 20-40 students, but we can have smaller or larger groups if it fits your delivery. Students are expected to send a member of their team to workshops, and we will use a passport type system to ensure teams have attended a variety of sessions.

We value your experiences and perspective, and the Nexus Maximus format is designed to be flexible and diverse. So if you have a topic of interest to you, we will find a way to incorporate it in, in a format of your choosing. The workshops provide tremendous value to the students, and are a great format to contribute to the event without a large time commitment.

Workshops can take place Friday afternoon, Saturday throughout the day and Sunday morning.

3. **Participate as a faculty facilitator.** Faculty members will collaboratively work in teams to give feedback to student teams during specified times each day of the event.

Potential Areas for Exploration:

1. Health informatics and the electronic health record
2. Tele-medicine
3. Tele-psychotherapy
4. Tele-rehabilitation
5. Retail clinics
6. Robotic surgery
7. Health communications
8. Social media
9. Information technology, Wikipedia, WebMD and the Web
10. Fitness wearables with Bluetooth connectivity
11. Video gaming and fitness, diet, health and wellness
12. Distance telecommunication
13. The interface of the built environment, technology and health
14. Data analytics
15. GIS
16. Public health- epidemiology and health promotion
17. Health record privacy
18. Hospitality industry-healthcare interface
19. Sustainability
20. Technology and disaster preparedness and response
21. Tele-meditation...