**SPONSORS**

Thanks to the institutions that provided the financial support that made this meeting possible.



University of Minnesota

Department of Integrative Biology and Physiology

College of Liberal Arts



Michigan State University

Department of Physiology

College of Natural Sciences



University of Arizona

Department of Physiology

College of Medicine



University of Oregon

Department of Human Physiology

College of Arts and Sciences

**SPONSORS continued**



University of Iowa

Department of Health and Human Physiology

College of Liberal Arts and Sciences



American Physiological Society



Association of Chairs of Department of Physiology



ADInstruments

**P-MIG Groups**

**PLANNING COMMITTEE**

*Erica Wehrwein, Michigan State University*

*Claudia Stanescu, University of Arizona*

*Jennifer Rogers, University of Iowa*

*Valerie VanRyn, ADInstruments*

*James Davis, Indiana State University*

*Jeffrey Osborn, University of Kentucky*

*Robin Hopkins, University of Oregon*

*Vincent Barnett, University of Minnesota*

*Lisa Carney Anderson, University of Minnesota*

*Anne Crecelius, University of Dayton*

*Patrick Crosswhite, Gonzaga University*

**Core Concepts Working Group** – *Claudia Stanescu (Co-chair), Jennifer Rogers (Co-chair), Joel Michael, Jenny McFarland, Barry Mason, Julia Choate, Nancy Aguilar-Roca, Patrick Crosswhite, Richard Nichols, Robin Hopkins, Vincent Barnett, Lisa Carney Anderson, Kerry Hull*

**Professional Skills Development Working Group** – *Michelle French, Julia Choate, Randy Bryner*

**Advising Working Group** – *Anne Crecelius, Patrick Crosswhite*

**MEETING GOALS**

* Inform attendees on the past, present and future goals and activities of the PMIG organization
* Highlight the importance of staff and faculty to the success of undergraduate physiology students
* Share resources, discuss best practices, and provide survey data on advising undergraduate physiology students
* Solicit feedback on a draft of the necessary professional skills for graduating undergraduate physiology students
* Update PMIG on Core Concepts Committee work, share data from Core Concepts curricular inventories, and solicit feedback for future directions
* Share the student perspective through dissemination of results from the 2019 Student Survey
* Recruit additional participants to PMIG working groups
* Work towards national curricular guidelines for physiology undergraduate programs
* Provide a forum for networking of stakeholders in undergraduate physiology education

**PROGRAM**

|  |  |
| --- | --- |
| **TUESDAY JUNE 18, 2019 – 4:30 PM – 7:00 PM** | |
| **Time** | **Event** |
| 4:30 – 5:00 PM | Registration: 114 Bruininks Hall |
| 5:00 – 7:00 PM | Poster Session: Presenters leave posters for duration of meeting |
| 7:00 PM | Walk to Sally’s Restaurant: Participants responsible for own meal |
| **WEDNESDAY JUNE 19, 2019 – 8:00 AM – 5:00 PM** | |
| **Time** | **Event** |
| 8:00 – 8:30 AM | Registration, breakfast and networking |
| 8:30 AM – 9:00 AM | Welcome message and introduction   * *Joseph Metzger, PhD, Department Chair* * *Lisa Carney Anderson, PhD, Co-host, Dir. Of Education* |
| Physiology Majors Interest Group (P-MIG)  Past, Present and Future   * *Erica Wehrwein, PhD, P-MIG Director*   *Michigan State University* |
| 9:30 AM – 10:45 AM | **Preparing Physiology Students for a Meaningful Career: The role of the teacher/adviser**   * *Laurence Savett, MD*   National Association of Advisors for the Health Professions (NAAHP)  *Author of The Human Side of Medicine* |
| ***10:45 AM – 11:00 AM*** | ***Break*** |
| 11:00 AM – 11:30 AM | Presentation by the Advising Working Group by Group Chairs: **Advising the Physiology Student**   * *Anne Crecelius, PhD*   *University of Dayton*   * *Patrick Crosswhite, PhD*   *Gonzaga University* |
| 11:30 AM – 12:00 PM | Discussion Panel: Best Practices in Advising   * *Laurence Savett, Anne Crecelius, and Patrick Crosswhite* |
| 12:00 PM – 12:30 PM | Lunch |
| Round Table Open Discussion Grouped by Topic -  Targeted outcome of discussion: What is something PMIG can do to support quality of Advising of Physiology Major? |
| ***12:30PM- 1:00PM*** | ***Group Photo*** |
| ***1:00 PM – 1:30 PM*** | ***Exercise Break - Walking or Bike Rental***  ***Opportunity to view posters*** |
| 1:30 PM – 2:15 PM | **Managing Stress in the Curriculum and in the Culture: The Unique Opportunity for Physiologists**   * *Aviad Haramati, PhD, Professor, Division of Integrative Physiology, Dept. of Biochemistry, Molecular and Cellular Biology*   *Director, Center for Innovation and Leadership in Education (CENTILE)* |
| 2:15 PM – 2:30 PM | Presentation of Professional Skills Group by Group Chairs: **Clarifying Professional and Technical Skills for Physiology Majors**   * *Michelle French, PhD*   *University of Toronto*   * *Randy Bryner, PhD*   *West Virginia University* |
| 2:30 PM – 3:00 PM | Small group discussion of Professional Skills Template |
| ~~3:00 PM – 3:15 PM~~ | ***~~Break~~*** |
| 3:15 PM – 3:45 PM | Regroup and consensus building on Professional Skills |
| 3:45 PM – 4:00 PM | Next steps for Professional Skills Template   * *Michelle French, PhD* |
| 4:00PM – 4:15 PM | Break |
| 4:15 PM – 5:45 PM | Panel Discussion: The Future of Physiology – Teaching and Practice: Development of Strategic Scenarios for 2030   * *Monteiro (Luis) Rodrigues, PhD*   *Professor and Chair of Human Physiology and Pathophysiology*  *Universidade Lusófona* |
| ~~4:30 PM – 5:00 PM~~ | ~~Group Photo~~ |
| ***~~5:00 PM – 6:00 PM~~*** | ***~~Free time for exercise, rest or networking~~*** |
| 6:00 PM – 8:00 PM | Appetizer buffet on the Patio of the Campus Club  Entertainment by the Lisa Carney Anderson Trio |
| **THURSDAY JUNE 20, 2019 – 8:00 AM – 12:00 PM** | |
| **Time** | **Event** |
| 8:00AM – 8:30 AM | Breakfast, networking and posters |
| 8:30 AM – 9:30 AM | Presentation from the Core Concepts Work Group by Group Chairs: **What are the core concepts, how should we use them, how will we assess them?**   * *Claudia Stanescu, PhD*   *University of Arizona*   * *Jennifer Rogers, PhD*   *University of Iowa* |
| 9:30 AM – 9:45 AM | Video Conference Presentation: **Curriculum Alignment Made Easier: Quickly Identify Content Overlaps and Gaps in Your Course or Program**   * *Chris Shaltry, PhD*   *Michigan State University* |
| ***9:45 AM – 10:00 AM*** | ***Break*** |
| 10:00 AM – 11:00 AM | Table Discussion for Core Concepts |
| 11:00 AM – 11:30 AM | The University of Minnesota’s Career Readiness Curriculum *with the U of MN’s Career Readiness Team*   * *Judith Anderson, Director of Career Readiness* * *Kris Cory, Career Readiness Faculty Engagement Specialist* * *Wendy Rahn, PhD, Political Science* |
| 11:30 AM – 12:00 PM | Q and A Discussion   * *University of Minnesota CLA Career Readiness Team* |
| 12:00 PM – 1:00 PM | Box lunches |
| **Invitation to next meeting July 2020**  *(Robin Hopkins, University of Oregon)*  Recruitment of new members to Work Groups  Wrap up discussion |
| 1:00 PM – 2:00 PM | Leadership meeting (all are welcome) |

**ABSTRACTS**

|  |  |
| --- | --- |
| **1** | **Reading the Signs of the Times: Reorganization of Health and Sports Science Degree Programs**, *Anne Crecelius, University of Dayton* |
| **2** | **Developing Learning Progressions for Flux and Mass Balance Reasoning In Physiology**, *Mary Pat Wenderoth, University of Washington* |
| **3** | **Reflective Writing as a Learning Tool to Improve Exam Performance in a Clinical Physiology Course**, *Lisa Carney Anderson, University of Minnesota* |
| **4** | **Adaptive Active Learning Will Improve Student Outcomes and Teaching in Principles of Physiology (PHSL 3061/5061*)****, Steven Wu, University of Minnesota* |
| **5** | **Extreme Physiology – The Ultimate Outdoor Classroom**, *Terrence Sweeney, The University of Scranton* |
| **6** | **Muscle Spindles and Our Sense of Physical Self: Kinesthetic Mirages of Limb Position and Posture**, Brandon Calderon, *ADInstruments* |
| **7** | **Report for the Physiology Majors Interest Group (P-MIG): Faculty Surveys on Core Concepts of Physiology**, Claudia Stanescu, University of Arizona |
| **8** | **Results from the 2019 P-MIG Student Survey***, Jennifer Rogers, University of Iowa* |
| **9** | **The Core Concepts in an Undergraduate Physiology Curriculum: Meeting Diverse Pre-Professional Needs at St. Olaf College**, *Sarah Amungongo, St. Olaf College* |
| **10** | **Physiology in the Liberal Arts Biology Curriculum: Serving Majors, Pre-medical and Pre-veterinary Students**, *Anne Walter, Sarah Amugongo, & Kevin Crisp, St. Olaf College* |
| **11** | **Intervention to Address Freshman Retention in Exercise Physiology**, *Randy Bryner, West Virginia University* |
| **12** | **Offering Retakes to Improve Learning Outcomes**, *James Davis, Indiana State University* |

**Special Thanks to the Home Team!**

**Meeting Recording** – Steven Wu

**Bike Tour** – Dalay Olson

**Student Support** – Gavin Fredrickson

**Clerical Support** – Jean Otto, Jane Barnard, Andy Johnson