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



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**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**

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| --- |
| **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 ClubEntertainment 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 GroupsWrap up discussion |
| 1:00 PM – 2:00 PM | Leadership meeting (all are welcome) |

**ABSTRACTS**

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| **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!**

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