HAPS September Virtual Meeting
September 25, 2021
Hello Everyone,

Welcome to the September 2021 Regional Virtual Conference at Kansas City Kansas Community College! I really wish everyone could be on campus with us. In late September, the weather is usually cooling off, and the humidity is finally easing up. Everyone knows beautiful fall weather is just around the corner. While we wish the conference could be in person, the safety of all participants is the paramount concern.

I read through your schedule of events and am so happy to see the student- and learning-centered emphasis. Our college, including its faculty, administration, and Board of Trustees, is here to serve the educational needs of our surrounding community, and it is exciting to see that exhibited in this conference.

If you were on our campus, you could see our new student housing being built. It’s going to be a magnificent addition. You could see the wonderful art installation commemorating our 100th anniversary that is in the entry hallway to our main campus building. You could see the exciting ambient spaces provided for our students to gather and study. Below are just few images for you to view. There is so much more I would love to share!

As Vice President of Academic Affairs, and on behalf of our president Dr. Greg Mosier, the Board of Trustees, faculty, staff, and students, I welcome you to the conference and trust you will have a worthwhile learning experience.

Jerry Pope
## HAPS September Regional Meeting
### September 25, 2021

*All events listed in ET*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 am –</td>
<td>Welcome</td>
<td>Main Hall</td>
</tr>
<tr>
<td>11:00 am</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00 am –</td>
<td>Update Speaker I:</td>
<td>Main Hall</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Kevin Patton</td>
<td></td>
</tr>
<tr>
<td></td>
<td>“Connecting Concepts in Human Science: Helping</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Learners Grow from Familiarity to Proficiency”</td>
<td></td>
</tr>
<tr>
<td>12:05 pm –</td>
<td>Workshop Session 1</td>
<td>Workshop A &amp; B</td>
</tr>
<tr>
<td>12:50 pm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:55 pm –</td>
<td>Lunch with Exhibitors</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>1:25 pm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:30 pm –</td>
<td>Update Speaker II:</td>
<td>Main Hall</td>
</tr>
<tr>
<td>2:30 pm</td>
<td>Mark Nielsen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>“Understanding the Muscles of the Head and Neck”</td>
<td></td>
</tr>
<tr>
<td>2:35 pm –</td>
<td>Workshop Session 2</td>
<td>Workshop A, B, &amp; C</td>
</tr>
<tr>
<td>3:20 pm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:25 pm –</td>
<td>Visit with Exhibitors</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>4:25 pm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:30 pm –</td>
<td>Workshop Session 3</td>
<td>Workshop A &amp; B</td>
</tr>
<tr>
<td>5:15 pm –</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:15 pm –</td>
<td>Closing Remarks</td>
<td>Main Hall</td>
</tr>
<tr>
<td>5:30 pm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Join HAPS for the November Virtual Meeting!

HAPS will be hosting a virtual meeting on November 13th from 10:30 am – 6:00 pm Eastern. To register online, click here. Interested in presenting a poster or workshop? Submit your proposal on this webpage by October 1st!

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 am – 11:00 am</td>
<td>Welcome</td>
</tr>
<tr>
<td>11:00 am – 12:00 pm</td>
<td>Update Speaker I: Hariom Yadav</td>
</tr>
<tr>
<td></td>
<td>“Gut Microbiome: A Goldmine of Therapeutics and Biomarkers of Aging</td>
</tr>
<tr>
<td></td>
<td>Related Metabolic Diseases”</td>
</tr>
<tr>
<td>12:05 pm – 12:50 pm</td>
<td>Workshop Session 1</td>
</tr>
<tr>
<td>12:55 pm – 1:25 pm</td>
<td>Lunch with Exhibitors</td>
</tr>
<tr>
<td>1:30 pm – 2:30 pm</td>
<td>Update Speaker II: Kenneth T. Kishida</td>
</tr>
<tr>
<td></td>
<td>“Ultra-Fast Monitoring of Neurotransmitter Micro-Fluctuations During</td>
</tr>
<tr>
<td></td>
<td>Conscious Choice and Subjective Experience in Humans”</td>
</tr>
<tr>
<td>2:35 pm – 3:20 pm</td>
<td>Workshop Session 2</td>
</tr>
<tr>
<td>3:25 pm – 4:25 pm</td>
<td>Poster Session &amp; Visit with Exhibitors</td>
</tr>
<tr>
<td>4:30 pm – 5:15 pm</td>
<td>Workshop Session 3</td>
</tr>
<tr>
<td>5:15 pm – 5:30 pm</td>
<td>Closing Remarks</td>
</tr>
</tbody>
</table>

The HAPS 36th Annual Conference will be held in Fort Lauderdale, Florida on May 25 through May 29. The Update Seminar portion of the meeting (May 25 - 27) will be held at the Greater Fort Lauderdale / Broward County Convention Center and the Workshop portion of the meeting (May 28 - 29) will be held at Nova Southeastern University.

Registration Opens in October!
Lt Sensors are a cost effective and versatile solution to record biosignals directly into Lt via USB.

“Easy to use - no-nonsense. Lt Sensors allow students to focus on learning, rather than hardware set-up.”

Dr Mike Gill
Professional Practice Fellow, Physiology, University of Otago
Exhibitors & Sponsor

HAPS would like to recognize and thank our conference exhibitors and sponsor. Their generous support makes this conference possible.

3D Organon
3D Organon is the leading VR/AR medical anatomy platform available in 15 languages.
prosupport@3dorganon.com
+6 145-190-5904
2/23 Illawong St.
Surfers Paradise
4217
Australia

ADInstruments
ADInstruments is happy to continue to support the HAPS community with laboratory solutions complete with hardware, software, and content for A&P, Biology, Chemistry, and more. ADInstruments solutions cover face to face, hybrid, and fully remote settings with options for live data recording or laboratories with sample data.
sales@adinstruments.com
719-576-3970
2205 Executive Circle
Colorado Springs, CO 80906

BIOPAC Systems, Inc.
BIOPAC lets you measure physiology anywhere with innovative, compatible solutions that can be used for anyone for meaningful discovery. We make high-quality scientific tools for physiology measurement and interpretation with superior compatibility and world-class customer service and support.
info@biopac.com
805-685-0066
42 Aero Camino
Goleta, CA 93117
**HHMI BioInteractive**
HHMI BioInteractive develops free resources, including short films, virtual labs, apps, and print materials, that are based on real data and highlight the science practices. These high-quality multimedia resources are developed, vetted, and field-tested by educators and scientists - and are all tied to major curriculum standards.

[biointeractive@hhmi.org](mailto:biointeractive@hhmi.org)
301-215-8500
4000 Jones Bridge Rd.
Chevy Chase, MD 20815

**Visible Body**
Visible Body creates 3D human anatomy, physiology and biology content that is bettering education outcomes and making teaching and learning anatomy fun. Our LMS Courseware maps to any textbook, features Canvas and Blackboard Single Sign On and allows professors to autograde labs, annotate 3D models, assign immersive dissection quizzing, share customized views on web and mobile and so much more!

[meredith.mchale@visiblebody.com](mailto:meredith.mchale@visiblebody.com)
917-604-3754
11 Mercer Dr.
Natick, MA 01760

**Wiley**
Wiley is a global leader in research and education, unlocking human potential by enabling discovery, powering education, and shaping workforces. For over 200 years, Wiley has fueled the world’s knowledge ecosystem; today, our high-impact content, platforms, and services help researchers, learners, institutions, and corporations achieve their goals in an ever-changing world.

[info@wiley.com](mailto:info@wiley.com)
201-748-6000
111 River St.
Hoboken, NJ 07030
Abstract: It is a challenge to familiarize learners with the overwhelming number and variety of concepts in anatomy and physiology courses. A greater challenge is to nurture the deep learning that comes with understanding the underlying principles and connecting concepts within a framework of understanding that equips learners to apply their knowledge to problem-solving. Kevin shares some practical strategies to help learners recognize connections among structures, mechanisms, and principles to construct a reliable conceptual framework of human structure and function.

Bio: Kevin Patton, Ph.D. is an award-winning instructor and teaching mentor in human anatomy and physiology (A&P), with four decades of experience in high schools, community colleges, and universities. Kevin hosts a popular podcast for A&P faculty called The A&P Professor and a variety of other teaching resources at theAPprofessor.org. His textbooks and lab manuals have served A&P students through multiple editions, evolving with the advancement of human science, learning science, and social responsibility. One of the original members of HAPS when it was incorporated, Patton has served in multiple leadership and service capacities – currently as a President Emeritus.
Abstract: Do you want to have a clear and excellent understanding of the muscles and fascial planes of the head and neck? Using developmental patterns, this presentation will explain how the musculofascial anatomy of the head and neck can be clearly understood to consist of four musculofascial planes that form logical innervation patterns based on a simple developmental scheme. The clinical importance of this anatomy will also be discussed.

Bio: Mark Nielsen is a Professor in the School of Biological Sciences at the University of Utah and for the past thirty-five years he has taught anatomy and its related subjects to over 29,000 students. In addition to teaching human anatomy in the School of Biological Sciences, he also teaches neuroanatomy, embryology, a human dissection course, and a teaching human anatomy course. He developed the anatomy course for the physician assistant program at the University of Utah School of Medicine, where he taught for five years, and taught in the cadaver lab at the University of Utah School of Medicine. He developed the anatomy and physiology program for the Utah College of Massage Therapy. His graduate training is in comparative anatomy and his anatomy expertise has a strong basis in dissection. He has prepared and participated in hundreds of dissections of both humans and other vertebrate animals. All his courses incorporate a cadaver based component to the training with an outstanding exposure to cadaver anatomy. He is a member of the American Association of Anatomists (AAA), the Human Anatomy and Physiology Society (HAPS), and the American Association of Clinical Anatomy (AACA). He is a President emeriti of the Human Anatomy and Physiology Society. Mark has a passion for teaching anatomy and sharing his knowledge with his students. In addition to the many students he has taught anatomy, he has trained and mentored approximately 1,600 students who have worked in his anatomy laboratory as teaching assistants. His concern for students and his teaching excellence have been acknowledged through numerous awards. He received the prestigious Presidential Teaching Scholar Award at the University of Utah, is a five-time recipient of the University of Utah Student Choice Award for Outstanding Teacher and Mentor, a two time winner of the Outstanding Teacher in the Physician Assistant Program, recipient of the American Massage Therapy Association Jerome Perlinski Teacher of the Year Award, and National Teacher of the Year in the Human Anatomy and Physiology Society. He enjoys golfing and traveling with his wife and watching his children and grandchildren as they mature into great young people.
Workshop Presentations

Session 1: 12:05 - 12:50 pm ET

**Workshop A: Facilitating Robust Learning Using Online Discussion Forums**  
Wendy Riggs, College of the Redwoods, wendyk-riggs@redwoods.edu

Discussion forums in online classes can be unstimulating spaces filled with obligatory posts, empty affirmations, and required word counts. In this workshop, we’ll look at a high touch strategy that uses digital tools (like polling software, white boards, and list makers) and thoughtful questions to generate rich conversations focused on authentic learning.

**Workshop B: Integrate Visible Body with Ease & Joy: Virtual Labs, Homework, and LMS Integration**  
Meredith McHale, Visible Body, meredith.mchale@visiblebody.com  
*Sponsored by Visible Body*

Instructors who use Visible Body Courseware see significant improvements in student engagement and performance. Grades are going up a whole letter and DFW rates are decreasing! This workshop will show you how to easily incorporate Visible Body Courseware into your classroom. You will see hands-on virtual auto-graded A & P labs and our new Canvas and BlackBoard Integrations. You’ll also learn how to customize and annotate 3D models according to your lab and lecture needs as well as easily share them with your students across multiple platforms: web (PC/Mac), phones and tablets.

Session 2: 2:35 - 3:20 pm ET

**Workshop A: Teaching with Data in the Classroom HHMI BioInteractive’s Data Explorer**  
Kaitlin Bonner, St. John Fisher College, kbonner@sjfc.edu  
*Sponsored by HHMI BioInteractive*

Exploring authentic research data engages students as scientists and clinicians, as well as highlights the importance of data literacy in their field. These activities promote quantitative skill development while also allowing students to discover knowledge and clarify understanding of physiological concepts through data exploration. Participants in this workshop will explore HHMI BioInteractive’s new Data Explorer tool, engage in discussions about teaching with data, and work with authentic research data. Participants will leave the session with an understanding of best practices in teaching with data and their own plan for using and/or adapting activities to use in Data Explorer.

**Workshop B: Teaching Physiology: How to Prioritize Hands-On Labs and Learning in Any Location**  
Jasmine Anderson, BIOPAC Systems Inc., jasminea@biopac.com  
*Sponsored by BIOPAC Systems, Inc.*

Are you struggling to provide students practical physiology labs that follow coronavirus safety measures? Attend this workshop to learn ways to promote active and hands-on learning in face-to-face, hybrid, and remote courses. We’ll share common use cases for prioritizing practical and meaningful labs—even during the pandemic. With the Biopac Student Lab system, which includes hardware, software, and curriculum materials, you’ll have an integrated life science teaching solution that can work anywhere. Key features include: 1. Data recording from student’s own bodies, animals, or tissue preparations. 2. Over 65 lessons covering topics such as ECG basics, nerve conduction velocity, EMG-controlled robotics, and functional near-infrared spectroscopy (fNIRS). 3. A system ranked number one by HAPS for physiology teaching.
Session 3: 4:30 - 5:15 pm ET

Workshop A: How to Make 3D Organon Part of Your Lesson Plan
Theodoros Zirogiannis, 3D Organon, prosupport@3dorganon.com
Sponsored by 3D Organon

3D Organon is a multi-award-winning medical and healthcare education platform across desktop, mobile, and VR/AR/MR devices. It is available in 15 languages. ganon VR Anatomy – is the world’s first fully-featured virtual reality anatomy application. It is named as the EdTech 2021 best VR/AR educational solution. 3D Organon 2022 edition is coming soon featuring an ultrasound simulation module, clinical imaging, histology slides, new microscopic models, pathology images and many more.

Workshop B: E-Merging Tech
Amanda Pierman, The Benjamin School, amanda.pierman@thebenjaminschool.org

I would like to demonstrate how online technology can enhance the teaching and learning of anatomy and physiology. Creating a collaborative document that can be amended and added to year after year allows the teacher and students to collate information that can best assist in understanding the anatomy and physiology of the body.

WileyPLUS
An easier way to teach and learn

Principles of Anatomy and Physiology, 16th Edition
By Gerard J. Tortora and Bryan Derrickson

Laboratory Manual for Anatomy & Physiology, 7th Edition
By Connie Allen and Valerie Harper
On behalf of Kansas City Kansas Community College, I would like to extend a sincere thank you to all who have participated in this virtual regional meeting.

I would like to first acknowledge the hard work put forth by the HAPS office staff and ASG: Brittney Roberts, Caitlin Hyatt, and Peter English.

Thank you to the update speakers, workshop presenters, and exhibitors. Without you, there would not have been a meeting.

I would like to thank our administration for its support of this meeting. Special thanks go to Dr, Greg Mosier, President, Dr. Jerry Pope, Vice President of Academic Services, and Dr, Ed Kremer, Dean of Math/Science/Business Technology.

Finally, I would like to recognize my fellow faculty colleagues for their support and assistance.

Thank you all again for making this meeting a success!

Sincerely,

Todd Gordon

Professor, Biology, Kansas City Kansas Community College