MESSAGE FROM THE CHAIR

Another summer past and time to plan for EB and other APS business! Please check out the Newsletter below for important information on EB and NCAR awards, APS committees, NCAR Facebook, and trainee events (listed on Trainee Page). We will be celebrating the 125th Anniversary of the APS at EB in San Diego. Many special events will be planned including a closing event on Wednesday evening. Submit your abstracts to NCAR topics and attend as many events as possible.

Best wishes, Mark Chapleau

For EB 2012, NCAR sessions are programmed on Sunday, Monday, and Tuesday (see Program on page 4).

CARL LUDWIG DISTINGUISHED LECTURESHIP FOR 2011

The NCAR steering committee is pleased to announce that Irving H. Zucker, Ph.D. has been named the Carl Ludwig Distinguished Lecturer for 2012. Dr. Zucker is Professor and Chairman of the Department of Cellular and Integrative Physiology at the University of Nebraska College of Medicine, Omaha, NE. He received his degree from New York Medical College in 1972. During the past forty years, Dr. Zucker’s research has focused on mechanisms of altered cardiovascular reflexes and the role of central autonomic nuclei in the control of sympathetic function during the progression of chronic heart failure. This work has underscored the patho-logical significance of the angiotensin system and oxidative stress in the activation of sympathetic outflow in cardiovascular disease. In addition to his research, Dr. Zucker has been an active
member and advocate of the American Physiological Society, serving as a chair on several committees and ultimately as president of the society in 2008. In addition, Dr. Zucker was president of the Association of Chairs of Departments of Physiology in 2003. Dr. Zucker has had continuous NIH funding and is Director of a program project grant on neural mechanisms in heart failure currently in its 12th year of funding. He received a NHLBI MERIT Award in 1992-2002. Dr. Zucker has been chairman of the physiology department at Nebraska since 1989, and has held the Theodore F. Hubbard, M.D. Endowed Chair of Cardiovascular Research since 1998. He has served on the editorial board of many journals and is currently an Associate Editor for the American Journal of Physiology: Heart and Circulatory Physiology. He was named Scientist Laureate at the University of Nebraska Medical Center and received the Wiggers Award from the Cardiovascular Section of APS in 2008.

The title of Dr. Zucker’s Ludwig Lecture to be delivered at the 2012 EB meeting in San Diego, CA is “Angiotensin and Sympathetic Nerve Activity”.

### NCAR SECTION AWARDS FOR 2012

All application materials for the following awards must be completed online by Nov. 8, 2011. Go to the NCAR Awards Page (http://www.the-aps.org/meetings/eb11/awards/ncar.htm) to apply. Please insure that you adhere to all eligibility and submission requirements. Please note that APS members can apply for multiple awards each year, BUT applicants are eligible to receive only one abstract-based award from the Society each year.

**Michael J. Brody Young Investigator Award** ($500 plus reimbursement of the advance registration fee) recognizes a promising young investigator who has made a significant research contribution to the understanding of neural control and autonomic regulation. The award is open to graduate students (post-candidacy exams), postdoctoral fellows, and clinical fellows (within 5 years of degree) who present and are first author on an abstract at the APS EB meeting. The applicant must be an APS member in good standing with a primary affiliation in the NCAR Section.

Applicants must upload: a copy of the submitted abstract; a list of publications; a one page summary and evaluation of research contributions written by the applicant; and a letter signed by both the applicant and sponsor indicating the date, or expected date, of highest degree. Awardee must be present at the Experimental Biology meeting to receive the cash prize and be recognized at the NCAR Reception and Business Meeting. While there is no limit to the number of times an individual can apply for this award, the applicant is eligible to win this award once only.

**Neural Control and Autonomic Regulation Section New Investigator Award** ($1,000 plus reimbursement of the advance registration fee) recognizes an outstanding investigator in the early stages of his/her career. Candidates should be investigators who have made meritorious contributions to the area represented by the NCAR Section. They should not be above the rank of Assistant Professor or a comparable position in a research track at an academic institution or in industry (e.g. Scientist, Sr. Scientist, Research Investigator, etc.). The candidate should not have held the rank for more than 7 years. They should receive nominations from at least two regular members of the APS.

Candidates will be judged on their publications, how the publications relate to the NCAR Section and evidence for independence and promise (grant funding, peer review activities, etc.). Although this is not an abstract-based award, awardees are expected to attend the EB Meeting and make an oral or poster presentation. The candidate must be an APS member in good standing with a primary affiliation in the NCAR Section. Candidates must upload: curriculum vitae (NIH style), 2 nomination letters from APS members, and 3 reprints. Awardees must attend the Experimental Biology meeting in order to collect the cash prize and are recognized at the NCAR Reception and Business Meeting. While there is no limit to the number of times an individual can apply for the award, the applicant is eligible to win this award once only.
Neural Control and Autonomic Regulation Section Postdoctoral and Early Career Research Recognition Awards ($500 plus reimbursement of the advance registration fee) provide travel support to postdoctoral research fellows and early career investigators to present meritorious research at the annual Experimental Biology Meeting. Postdoctoral fellows (within 5 years of degree) and investigators with an academic rank not higher than that of Assistant Professor (or equivalent; holding the position for no more than 7 years) working in the area of neural control and autonomic regulation are eligible to apply. Applicants must submit a first-authored abstract to any appropriate NCAR topic and make the presentation at the EB meeting. The applicant must be an APS member in good standing with either a primary or secondary affiliation in the NCAR Section.

Award criteria will be based on current work reflected in the abstract and overall contributions to the field. Applicants must upload a copy of the first-authored abstract and their curriculum vitae (NIH style). Awardees must attend the Experimental Biology meeting in order to collect the cash prize and be recognized at the NCAR Reception and Business Meeting. While there is no limit to the number of times an individual can apply for these awards, the applicant is eligible to win this award once only.

Neural Control and Autonomic Regulation Section Graduate Student Award(s) ($500 plus reimbursement of the advance registration fee) provides travel support to one or more graduate students to present meritorious research at the annual Experimental Biology Meeting. Graduate students working towards a PhD degree in the area of neural control and autonomic regulation are eligible to apply. Applicants must submit a first-authored abstract to any appropriate NCAR topic and make the presentation at the EB meeting. The applicant must be an APS member in good standing with either a primary or secondary affiliation in the NCAR Section.

Award criteria will be based on current work reflected in the abstract and research accomplishments. Applicants must upload a copy of the first-authored abstract, a list of publications, a summary of research contributions written by the applicant, and a letter signed by both the applicant and sponsor indicating the expected date of receiving the PhD degree. Awardees must attend the Experimental Biology meeting in order to collect the cash prize and are recognized at the NCAR Reception and Business Meeting. While there is no limit to the number of times an individual can apply for this award, the applicant is eligible to win this award once only.

NCAR Trainee Feature Topic

For the second consecutive year, NCAR will be soliciting abstracts specifically for our Trainee Featured Topic at EB 2012. Graduate students, post-docs, and clinical fellows (within 5 years of degree) are encouraged to apply. This is an abstract driven featured topic, and a total of 8 abstracts will be selected. If interested, please be sure to select the "NCAR Trainee FT" category when you upload your abstract in November!

NCAR Now on Facebook

NCAR now has a Facebook page! We hope that our page will facilitate your ability to keep in touch with NCAR colleagues and activities. We will be posting more information on the page in the coming months as it grows. Feel free to post any comments or suggestions you have. In the meantime, please “Like” our page!


NCAR Logo: Help us design a logo for our Facebook page and Newsletter! See the instructions for the contest and submission requirements on our Facebook page.
## EB2012 – NCAR SPONSORED SESSIONS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Session Type</th>
<th>Title</th>
<th>Chair(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday</td>
<td>10:30 AM-12:30 PM</td>
<td>Featured Topic 1 of 4</td>
<td>Autonomic Control of Visceral Functions</td>
<td>R. Alberto Travagl</td>
</tr>
<tr>
<td>April 22</td>
<td>3:30-5:30 PM</td>
<td>Featured Topic 2 of 4</td>
<td>NCAR Trainee Featured Topic</td>
<td>Jason R. Carter</td>
</tr>
<tr>
<td>Monday</td>
<td>8:00-9:00 AM</td>
<td>Distinguished Lecture</td>
<td>Ludwig Distinguished Lecture Irving. H. Zucker, Ph.D.</td>
<td>Mark Chapleau</td>
</tr>
<tr>
<td>April 23</td>
<td>9:00-10:00 AM</td>
<td>Minisymposium</td>
<td>Angiotensin and Sympathetic Nerve Activity</td>
<td>Irving H. Zucker</td>
</tr>
<tr>
<td>Monday</td>
<td>10:30 AM-12:30 PM</td>
<td>Symposium 1 of 2</td>
<td>Altered Central and Ganglionic Catecholaminergic Transmission in Cardiovascular Disease</td>
<td>David J. Paterson Anja Teschemacher</td>
</tr>
<tr>
<td>April 23</td>
<td>3:30-5:30 PM</td>
<td>Featured Topic 3 of 4</td>
<td>Molecular Sensors in Afferent Neurons that Contribute to Pain, Fatigue, and Activation of Autonomic Reflexes in Health and Disease</td>
<td>Christopher J. Benson</td>
</tr>
<tr>
<td>Tuesday</td>
<td>8:00-10:00 AM</td>
<td>Symposium 2 of 2</td>
<td>From Microscopes to Microneurography: Innovative Techniques for the Study of Central Neural Control</td>
<td>Colin N. Young Catharine G. Clark</td>
</tr>
<tr>
<td>April 24</td>
<td>10:30 AM-12:30 PM</td>
<td>Featured Topic 4 of 4</td>
<td>Neurovascular Responses to Aging and Disease: Adaptations and Interventions</td>
<td>William G. Schrage</td>
</tr>
</tbody>
</table>

### NCAR SPONSORED POSTERS

- 1173-APS  Central autonomic regulation
- 1174-APS  Neural control of cardiorespiratory function
- 1175-APS  Neural control of cardiovascular function
- 1176-APS  Neural control of visceral and metabolic function
- 1177-APS  Neural mechanisms in cardiovascular disease

**Attention Abstract Submitters:** We want to stress the importance of submitting abstracts to a NCAR category listed above. The more abstracts we program, the more Symposium and FT's we will be allocated to program in the future. Submitting abstracts to NCAR sessions does make a difference.

**Reminder:** all featured topics will include abstracts that will be orally presented during the second hour of the session. If your research relates to any of the featured topic areas, please consider submitting a 2011 abstract to that particular topic category. This is done during the normal abstract submission process in November, but it’s never too early to begin planning!
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<tr>
<td>Sunday</td>
<td>8:00-10:00 AM</td>
<td>Symposium</td>
<td>Brain Insulin: The Forgotten Metabolic Partner of Leptin?</td>
<td>Kamal Rahmouni, Virginia Brooks</td>
</tr>
<tr>
<td>April 22</td>
<td>10:30AM-12:30 PM</td>
<td>Featured Topic</td>
<td>Disruption to Central Sympathetic Control Mechanisms: Implications for Obesity-Related Hypertension</td>
<td>Daniela Sartor, Sean D. Stocker</td>
</tr>
<tr>
<td>Sunday</td>
<td>3:30-5:30 PM</td>
<td>Symposium</td>
<td>Functional Integration in the Hypothalamic Paraventricular Nucleus</td>
<td>Alan Watts, Greti Aguilera</td>
</tr>
<tr>
<td>April 22</td>
<td>8:00-10:00 AM</td>
<td>Symposium</td>
<td>Towards a Biology of Body Weight Regulation: The Work of Stephen C. Woods</td>
<td>Randy Seeley, Stephen C. Woods</td>
</tr>
<tr>
<td>Monday</td>
<td>8:00-10:00 AM</td>
<td>Symposium</td>
<td>Hypoxia Inducible Factors (HIFs) in Health and Disease</td>
<td>Bernard B. Rees</td>
</tr>
<tr>
<td>April 23</td>
<td>10:30AM-12:30 PM</td>
<td>Featured Topic</td>
<td>Chronic Intermittent Hypoxia: Respiratory, Autonomic and Cardiovascular Consequences</td>
<td>Ann M. Schreihofer, Glenn M. Toney</td>
</tr>
<tr>
<td>Monday</td>
<td>3:30-5:30 PM</td>
<td>Distinguished Lecture</td>
<td>Joseph Erlanger Distinguished Lectureship of the CNS Section</td>
<td>Stephen Woods</td>
</tr>
<tr>
<td>Tuesday</td>
<td>10:30AM-12:30 PM</td>
<td>Symposium</td>
<td>Novel Roles of the Renin-Angiotensin System in Aging and Other Pathologies</td>
<td>Mark C. Chappell</td>
</tr>
<tr>
<td>April 24</td>
<td>3:30-5:30 PM</td>
<td>Symposium</td>
<td>Computational Modeling in Central Respiratory Control and CO₂ Chemoreception</td>
<td>Irene C. Solomon, Juan M. Cordovez</td>
</tr>
<tr>
<td>Wed</td>
<td>8:00-10:00 AM</td>
<td>Symposium</td>
<td>Neurovascular Mechanisms and Targets in Stroke: From Cells to Humans</td>
<td>Ming Ming Ping, Eng H. Lo</td>
</tr>
<tr>
<td>April 13</td>
<td>8:00-10:00 AM</td>
<td>Symposium</td>
<td>Recent Advances in Physiology and Disease: The Role of the Circadian Clock in Neural, Cardiovascular and Metabolic Function</td>
<td>Michelle L. Gumz, R. Daniel Rudic</td>
</tr>
<tr>
<td>Wed</td>
<td>3:30-5:30 PM</td>
<td>Featured Topic</td>
<td>Leptin: Metabolic, Cardiovascular and Immune Control. Does it All Come from the Brain?</td>
<td>Eric J. Belin de Chantemele, Heinrich Lob</td>
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</tbody>
</table>
OTHER FUTURE MEETINGS

Scientific Sessions 2012 American Heart Association, Orlando, FL (November 12-15, 2011)
Neuroscience Meeting, Washington, DC (November 12-16, 2011)
Gordon Conference on Angiotensin, Ventura, CA (February 26 - March 2, 2012)
APS Conference: Autonomic Regulation of Cardiovascular Function in Health and Disease, Omaha, NE (July 6-10, 2012)

Also, we encourage NCAR members to submit proposals for IUPS 2013. For more information see: http://www.iups2013.org/

NCAR MEMBERS ON APS COMMITTEES

NCAR members with terms beginning Jan 1, 2012

Angela Grippo, Northern Illinois Univ. Chair, Women in Physiology Committee
Catharine Clark, Univ. of Missouri (student member) Education Committee
Eric D. Lazartigues, Louisiana State Univ. Porter Physiolgy Development Committee
Lila LaGrange, University of the Incarnate Word, San Antonio TX Education Committee
Matthew Zimmerman, Univ. Neb. Med Center Animal Care and Experimentation Committee
Kathleen O'Hagan, Midwestern University Women in Physiology Committee
L. Britt Wilson, Univ. South Carolina Sch. Med. Communications Committee

NCAR members with continuing serve on APS Committees

Harald Stauss, Univ. Iowa Chair, Chapter Advisory Committee
Harold D. Schultz, Univ. Nebraska Med Center Chapter Advisory Committee
Julia Moffitt, Univ. Iowa Chapter Advisory Committee
Gaylen Edwards, University of Georgia Animal Care and Experimentation Committee
Sarah Clayton, Univ. Iowa (trainee member) Animal Care and Experimentation Committee
Yumei Feng, Tulane Univ. Awards Committee
Colin Young, Cornell Univ. (student member) Career Opportunities in Physiology Committee
Xiaorui Tang, Penn State Membership Committee
Caroline Rickards, Univ. Texas, San Antonio Women in Physiology Committee

Retiring Committee Members-thanks for your service!

Joseph Francis, Louisiana State Univ. Awards Committee
Mark Knuepfer, St. Louis Univ Education Committee
Helio Salgado, School of Medicine of Ribeirao Preto, Brazil International Committee
James Galligan, Michigan State Univ. Science Policy Committee

APS NEEDS YOU

Applications for various APS committees are due in mid January 2012. Nominees will be voted on at the EB 2012 meeting, and appointments will begin in January 2013. Descriptions of the committees and their member requirements/ responsibilities are found at: http://www.the-aps.org/committees/index.htm. The nomination process is simple and easy.

If interested, please contact Debbie Scheuer (scheuerd@ufl.edu) or see: http://www.the-aps.org/committees/nominate.htm.

The following committees either have no NCAR-affiliated members or the current NCAR-affiliated member will rotate off the committee in January 2013: Conference, Finance, International, Science Policy and Senior Physiologists.
Greetings Trainees! It’s time to start putting together your new and exciting data for the 2012 Experimental Biology meeting in sunny San Diego!! The abstract deadline is November 8th. There will be many networking opportunities to look forward to as well as informative trainee sessions including a symposium sponsored by the Trainee Advisory Committee (TAC) entitled, “E-Media Tools for the Professional Scientist.”

- When submitting your abstract, please consider the NCAR sponsored poster and featured topic categories listed in this newsletter and apply for our competitive awards to help fund your travel. The NCAR Research Recognition Awards and Michael J. Brody Young Investigator Award are open to advanced graduate students and postdoctoral or clinical fellows working in the area of neural control and autonomic regulation. Junior investigators (academic rank not higher than Assistant Professor or equivalent) are eligible for the New Investigator Award as well as Research Recognition Awards. For more information regarding trainee eligibility and the application process please visit: http://www.the-aps.org/meetings/eb11/awards/ncar.htm

- If you are an early career stage member of the APS and have made outstanding service contributions to the physiology community, also consider applying for the Dale J. Benos Early Career Professional Service Award. For more information visit: http://www.the-aps.org/awards/society/earlycareer.htm

Interested in K-12 outreach opportunities? Participate in PhUn week – a leading APS program that exposes K-12 students to the wonders of science and inspires the next generation of physiologists! This year PhUn week is scheduled for November 7-11, but events can happen anytime during this month. For information visit: www.phunweek.org.


Additional Trainee Resources:
- Visit the Trainee Website (www.the-aps.org/trainees) for a wealth of information!
- Subscribe to the Trainee Listserv by sending an e-mail with “Trainee Listserv” in the subject line to Education@The-APS.org
- Join the “APS Trainees” and “American Physiological Society” groups on Facebook for updates.

Finally, my term as the NCAR trainee representative will be ending in December 2012. We will solicit official nominations later this year, but keep this position in mind if you are a trainee interested in serving on an APS committee.

Please don’t hesitate to contact me at amy.c.arnold@vanderbilt.edu if you have any questions, comments, or concerns regarding trainees in APS.
WELCOME TO NCAR: NEW MEMBERS FROM MARCH-SEPTEMBER 2011

Student Members, Primary Affiliation

Marissa L Smith, Virginia Tech, Christiansburg, VA; Zeljka Minic, Wayne State University, Detroit, MI; Michael J Devinney, University of Wisconsin, Madison, WI; Gisele C Vaz, Federal University of Minas Gerais, Belo Horizonte, Brazil; Seth Holwerda, The University of Missouri, Columbia, MO; Niththa A Jeyaraj, Michigan State University, East Lansing, MI; Sabya Das, UC Berkeley, Folsom, CA; Julia V Gorgone, UC Davis, Walnut Creek, CA; Michael Gowen, University Pittsburgh, Loretto, PA; Margaret Robotham, Barnard College, New York, NY; Allyson C Marshall, Wake Forest Baptist Medical Center, Salem, NC.

Student Members, Secondary Affiliation

Brittany Luckett, Pennsylvannia St Univ, Hershey, PA; Casey French, Radford Univ, Radford, VA; Nathan M Garvin, Penn State University, State College, PA; Niamh E Goulding, University College Cork, Cork, Ireland; Manuel Montero, Loma Linda Univ, Loma Linda, CA; Katherine Rivera, Pontificia Univ; Catolica Madre y Maestra, Santiago, Dominican Republic; Silmara Formenti, Federal University Sao Paulo, Sao Paulo, Brazil; Benjamin W Cartner, Appalachian State Univ, Boone, NC; Damien Callahan, University Massachusetts, Amherst, MA; Jarl M Haggerty, University Arizona, Tucson, AZ; Andre S Barreto, Federal University of Sergipe, Aracaju, Brazil; Stephen J Carter, University Alabama, Tuscaloosa, AL; Sang Hwan Kim, University New Mexico, Santa Fe, NM; Nicholas M Clute-Reining, Pomona College, Claremont, CA; Katcha Efua, Mayo Graduate Sch, Rochester, MN; Catalina Vallejo-Giraldo, Mayo Graduate Sch, Rochester, MN; Tahisha Buck, University Oregon, Eugene, OR; Jason M De Freitas, University Alabama, Huntsville, AL; Angela M Danborno, The University Kansas, Lawrence, KS; Paul Strong, University of Colorado, Westminster, CO; Jefferson F Goularte, University Fed Do Rio Grande Do Sul Porto, Alegre, Brazil; Clarissa Muere, Medical College of Wisconsin, Milwaukee, WI; Qiong Wu, University North Texas Hlth Sci Ctr (UNTHSC),, Fort Worth, TX; Brandon H Cherry, UNTHSC, Fort Worth, TX; Juan Estrada, UNTHSC, Fort Worth, TX; Alisha Lacewell, University Oregon, Junction City, OR; Kirtigandha Salwe, UNTHSC, Fort Worth, TX; Katelyn E Faulk, UNTHSC, Fort Worth, TX; Murtala B Abubakar, Universidade Sains Malaysia. Kelantan, Malaysia.

Regular Members, Primary Affiliation

Melissa Scotti, Northern Illinois University, Dekalb, IL; Xiuying Ma, Merck & Co, Rahway, NJ; Paul Gribble, The University of Western Ontario, London, ON; Colin N Young, Cornell University, Ithaca, NY; Neil Cronin, Griffith University, Southport, QLD, Australia; Akira Muto, National Institute of Genetics, Mishima, Japan; Sheng Wang, University of Virginia, Charlottesville, VA; Daniel S McGehee, University of Chicago, Chicago, IL; Etienne Burdet, Imperial College London, London, UK; Bradley R Postle, University of Wisconsin-Madison, WI; Craig D Steinback, University of Calgary, Calgary, AB; Wu Zhou, University Mississippi Medical Ctr, Jackson, MS; Valdir A Braga, Federal University of Paraiba, Areia, Brazil; Chris Ford, Case Western Reserve University, Cleveland, OH; Yury Gerasimenko, University California Los Angeles, CA; Philippe Nicolas Tobler, University Zurich, Switzerland.

Regular Members, Secondary Affiliation

Jasenka Zubcevic, University of Florida, Gainesville, FL; Stella Goulopoulou, Georgia Health Sciences University, Augusta, GA; Joseph Zacharia, University of Maryland, Baltimore, MD; William S Wright, University of South Carolina Upstate, Spartanburg, SC; Heather Edgell, University of Western Ontario, London, ON; Anil K Pandey, GSL Medical College & General Hospital Rajahmundry, Rajanagaram, India; Sookjin Son, Georgia Health Sciences University, Augusta, GA; Carie R Reynolds, George Washington University, Washington DC; Andrea Corcoran, Dartmouth College, Lebanon, NH; Jianguo Gu, University of Cincinnati College of Medicine, Cincinnati, OH; J Harry Blaise, Trinity College, Hartford, CT; Sangita Dandekar, New York University, New York, NY; Huijuan Hu, Drexel University College of Medicine, Philadelphia, PA; Jagmeet S Kanwal, Georgetown University, Washington DC; Frank C Pott, Bispebjerg Hospital, Copenhagen, NV; Robson A S Santos, Universidade Federal De Minas Gerais Belo Horizonte, Brazil; Yanfang Chen, Wright State University, Dayton, OH; Mitra J Hartmann, Northwestern University, Evanston, IL; Gelys Torres-Oviedo, Johns Hopkins Sch Med-Kennedy Krieger Inst, Baltimore, MD; Madelyn A Baez, Brandeis University, Dorchester, MA; Shinichi Furuya, University of Minnesota, Minneapolis, MN; Sushmita Purkayastha, UNTHCS, Fort Worth, TX; Simon Levy, Boston University Sch Med, Boston, MA; Min Li, University of California, Irvine, CA; Andrew A. Sharp, Southern Illinois University, Carbondale, IL; Wendy L Eubank, UNTHSC Fort Worth, TX; Taian De Mello Martins Vieira, Universidade Federal Do Rio De Janeiro, Brazil; Trevor A Day, Mount Royal University, Calgary, AB; Million Mulguta, University California, Los Angeles, CA; Yu-Chieh Tzeng, University of Otago, Wellington, NZ; Konstantina Dipla, Aristotle University of Thessaloniki, Serres, Greece; Timothy Higham, University of California, Riverside, CA.