CARDIOVASCULAR SECTION NEWSLETTER

Robert L. Hester, Ph.D. Chair
David W. Busija, Ph.D. Secretary/Treasurer

1. News from the Chair:

February 13, 2012

Dear Members of the Cardiovascular Section,

We are looking forward with great anticipation to the EB2012 meeting, Saturday April 21st through Wednesday April 25th, 2012, in sunny San Diego, California. The CV Section Programming Committee has put together a superb program of special lectures, symposia, featured topics, slide sessions, and poster sessions. The CV Sponsored Symposia and Featured Topics sessions are listed below. In addition, the CV section will have its annual Trainee Reception followed by the Banquet on Monday, April 23 (see below). The contributions of the other Sections and Interest Groups of the APS and the other attending societies will ensure that the upcoming EB2012 will be an exciting and rewarding experience for all attendees. Please remember that the programming will continue through the last day, Wednesday, April 25th.

The CV Section has a series of awards that are presented at Experimental Biology and we encourage all section members to attend. The two major awards are the Berne Lecture and the Wiggers Award. The Berne Lecturer for EB 2012 is Dr. Rhian Touyz from the University of Ottawa. This presentation will be on Tuesday, April 24th at 2:00 pm in Room 24 of the Convention Center. The Wiggers Awardee is Dr. Clinton Webb from Georgia Health Sciences Center. This presentation will be made on Monday, April 23rd at 10:30 am in Room 23 of the Convention Center. Additional awards are listed below under the Awards Committee Report.

The CV Section banquet will be a cruise on the California Spirit Cruise Ship. The banquet will be on Monday, April 23rd, starting at 6:00 pm with a Trainee only reception. David Busija has done a great job in organizing this annual event. See next section for details.

Other information about EB 2012 follows. See you at EB2012!

Robert Hester, Ph.D., Chair CV Section
2. News from the Secretary/Treasurer: David W. Busija

A. Special Section Event at EB2012. Our CV Section Trainee Mixer and Awards Banquet will be onboard the California Spirit for a cruise on San Diego Harbor from 7:00-10:00 pm (boarding starts at 6:30 at the dock located close to the convention center):

- Directions to the dock: [http://www.flagshipsd.com/images/stories/5thavenuelandingdirections.pdf](http://www.flagshipsd.com/images/stories/5thavenuelandingdirections.pdf)
  - On the day of departure, April 23, 2012 you can phone: 619-234-4111 or 1-800-442-7847
- Picture of our ride: [http://www.flagshipsd.com/](http://www.flagshipsd.com/)
- **DEADLINE FOR BANQUET TICKETS PURCHASED ONLINE IS MARCH 2, 2012 IN ORDER TO ALLOW TIME FOR SHIPPING PRIOR TO THE MEETING.** Limited tickets may be available on a first come/first served basis at the APS office during the meeting.

- **Please help support your section by attending the Awards Banquet.** This event was very well received last time the EB meeting was in San Diego and we expect another outstanding event. The evening will start with a trainee only reception at 6:00 pm with boarding for other members starting at 6:30 pm. **Buy your tickets early to ensure that you have a seat.** I have attended this event for the last 25 years and find it very useful for advertising my department to the national and international academic communities, for the recruitment of graduate students/post-doctoral fellows/faculty members, and for the scientific exchange among cardiovascular scientists in a relaxed and informal setting.

- **Trainee tickets for the banquet will be offered at a discounted price.**

- **We are asking for contributions beyond ticket sales to help underwrite the cost of the banquet.** Ticket sales account for only one-half of the cost of banquet and thus contributions are essential for the success of the event. This year your contribution means more than ever as our economy has added new financial pressures to the Section. You can sponsor a table for $1,000.00 or more. You will be acknowledged with a placard with your name and institution and will receive one complimentary ticket. Dr. David Busija will provide an appropriate letter if needed for institutional approval of the gift to the CV Section of APS. It would be a great way to publicize your department’s contributions to cardiovascular research and commitment curing cardiovascular disease. If you have any questions please do not hesitate to contact me. All donations should be payable to the "American Physiological Society-Cardiovascular Section." Federal tax identification number is: 530204660. Non-profit status is: 501c3.

B. Service to the CV Section Membership. I encourage CV Section Members to provide suggestions and comments to the Section Chair, the Secretary/Treasurer, and/or members of the Steering Committee concerning items of interest or concern. Phone numbers and email addresses are provided on the APS/CV Section webpage. Our mission is to serve and promote the needs of the section membership within the context of the American Physiological Society. Interested members should apply for open positions on the CV Section and American Physiological Society committees.
3.125th anniversary of the APS: Help us Celebrate! Register for Opening and Closing events!

- **Saturday, April 21, 7:00 PM - following the Cannon Lecture by L. Gabriel Navar, Tulane University** - APS will party on the North Embarcadero with *The Mardells*, food, drink, and games galore.
- **Wednesday, April 25, 6:00 PM - following the afternoon sessions including a lecture by Nobel Laureate Oliver Smithies** – the party moves into the Marriott with food, drink, music, and dancing to an APS member band – *GI Distress!* Plan on attending to help celebrate the Society’s founding in 1887!

4. NIH Update at EB 2012:

Several NIH institutes will report on their research and policy initiatives during EB 2012 in San Diego. “National Institutes of Health: Programs and Policies Update from Institutes” will be presented from 2-4 pm on Tuesday, April 24 in Room 1A of the San Diego Convention Center. Drs. Susan Shurin of the National Heart, Lung, and Blood Institute (NHLBI); Judith Greenberg of National Institute of General Medical Sciences (NIGMS); Richard Nakamura of the Center for Scientific Review (CSR); and Elizabeth Wilder of the Division of Program Coordination, Planning, and Strategic Initiatives (DPCPSI) will share the latest information about research programs and policy priorities.

The session chairs are APS President-elect Susan Barman and APS Science Policy Chair John Chatham.

5. Researchers and Public Outreach:

The APS Animal Care and Experimentation Committee will sponsor a symposium on public outreach at EB 2012. “Public Outreach and Animal Research: A Toolkit for Investigators” will be presented on Saturday, April 21, 2012 from 1:00-3:00 pm in Room 25B of the San Diego Convention Center.

During the past decade, public support for animal research has dwindled from more than 70% to the 50-60% range, according to recent public opinion polling. Distorted information distributed by animal research opponents has played a role in this decline in public support, yet few investigators come forward to challenge false claims or invest time in building public confidence in the work we do. There is growing awareness that scientists need to explain both the importance of their research and underscore their commitment to treating animals humanely. Nevertheless, many scientists feel ill-equipped to take on the role of research advocate. This symposium is intended to provide scientists with the background they need to broach the topic of animal research with their students, neighbors, and family members. Speakers include an investigator, a veterinarian, and a media expert, all of whom are seasoned research advocates.

**Public Outreach and Animal Research: A Toolkit for Investigators**

1:00 PM Introduction.
**Bill Yates**, Univ. of Pittsburgh, Chair, APS Animal Care and Experimentation Committee

1:10 PM Engaging the public about animal research: a scientist’s perspective.
**Dario Ringach**, Univ. of California, Los Angeles Jules Stein Eye Inst., David Geffen Sch. of Med.

1:40 PM Public outreach: a laboratory animal veterinarian’s perspective and experience over a quarter of a century.

2:10 PM Why investigators and institutions should talk about animal research: a media relations perspective.
6. APS Conference Committee: Gerald Meininger, Ph.D.

Important Announcement from the APS Conference Committee: APS Conferences provide the ultimate in programming opportunities for APS members interested in organizing a thematic scientific conference in an important new area of physiology or to highlight advancements in important existing areas. Conference programs that integrate translational and/or clinical relevance into the program are of particular interest to the committee. The Conference Committee is also interested in soliciting ideas for conferences and encourages submission of themes or concepts for potential conferences. The APS Conference Committee will work with organizers to assist in all aspects of conference planning to facilitate the task of putting on the conference. We currently have open slots for conference presentations for 2013, 2014 and 2015. The APS provides up to $30,000 toward reimbursement of invited speaker direct costs and registration. Proposals are due April 1, August 1, and December 1 and are reviewed by the APS Conferences Committee. The guidelines and online application form can be found online at: http://www.the-aps.org/meetings/aps/index.htm and questions should be directed to Sarah Knox (sknox@the-aps.org or 301-634-7967) or Gerald A. Meininger, Ph.D. (Meiningerg@missouri.edu or 573-882-9662).

7. CV Section Committee Reports:

Trainee Committee: Julie Rennison, Ph.D., Chair.

Cardiovascular Section Trainee Events at Experimental Biology 2012
As you make your travel plans for Experimental Biology, we encourage you to attend the Cardiovascular (CV) Section-sponsored trainee events. The CV Section Awards Banquet will be held on Monday, April 23rd aboard the California Spirit Cruise Ship (located next to Convention Center). The evening will start with a trainee only reception at 6:00 pm, boarding for others starting at 6:30 with the cruise ending at 10:00 p.m. Trainee tickets for the banquet are being offered at a discounted price ($50.00). The direct link to the APS online store banquet ticket page is: http://www.the-aps.org/EbusPPROD/Default.aspx?tabid=260&Class=BANQUET&sub=INV
We look forward to your attendance at the trainee reception and CV Section Awards Banquet.

As you know, the CV Section invited trainees to submit proposals for Symposia and Featured Topics at Experimental Biology 2012. Many excellent proposals were submitted so several trainee-submitted proposals have been selected by the CV Section Programming Committee for presentation at Experimental Biology 2012.

CV Section Trainee-led Symposia
Emerging Paradigms in Inflammation and Microvascular Dysfunction: Novel Insights and Future Trends
Co-chaired by Sanjukta Chakraborty and Mariappan Muthuchamy

Control of Vascular Tone by Extraluminal Nucleotides
Co-chaired by Brett Kirby and Stefan Mortensen

Mitochondrial Dynamics in Cardiac Physiology
Co-chaired by William Stanley and Julie Rennison
CV Section Trainee-led Featured Topics
Emerging Paradigms in Microvascular Signaling
Co-chaired by Adam Straub and Erika Westcott

Leptin: Metabolic, Cardiovascular and Immune control. Does it all come from the brain?
Co-chaired by Eric Belin de Chantemele and Heinrich Lob

APS Symposia for Trainees
The APS Communications Committee is hosting a symposium entitled “Using Social Media to Communicate About Physiology and You” on Saturday-April 21, 2012 from 3:00-5:00pm.

The Career Opportunities in Physiology Committee is hosting a session entitled “Do I Need Another Degree?” on Monday, April 23, beginning at 10:30 am.

The Trainee Advisory Committee will be hosting a session entitled “E-Media Tools for the Professional Scientist” on Wednesday, April 25th, from 10:30-12:30pm. The purpose of this session will be to highlight new technologies for the professional physiologist. Presentations include:

Using e-media to Find Funding Opportunities
Christopher Dant, Ph.D., Dartmouth University

E-medial Tools for Teaching
Aaron Bunker, Ph.D., Morningside College

Social Media in the Life Sciences
Kristy Meyer, Ph.D., Sigma-Aldrich

Ethical Implications of Social Media
Natalie Brown, Happy Place Marketing

Trainees, you are invited to the 2012 Meet the Nobel Laureate Reception!!

Mark your calendars for a wine and cheese reception honoring APS Trainees and Dr. Oliver Smithies, 2007 Recipient of the Nobel Prize in Physiology or Medicine and Weatherspoon Eminent Distinguished Professor, University of North Carolina at Chapel Hill.

The reception will take place on Wednesday April 25, 2012, immediately following the APS Nobel Prize in Physiology or Medicine Lecture (lecture at 3:30 pm)

For additional information on any of these trainee-related events, please feel free to contact Julie Rennison, Cardiovascular Section Representative for the Trainee Advisory Committee, at jhrennison@gmail.com.

8. APS Physiologists in Industry Committee (PIC): John T. Liles, Ph.D., Chair

The APS PIC is sponsoring a Symposium at EB 2012 entitled "MircoRNAs in Human Disease and as Novel Therapeutics " (chaired by Rebecca Persinger, R.D., Ph.D. and John Liles, Ph.D.) on Sunday, April 22 from 8 –
microRNAs (miRNAs) are a class of short (~19-25 nucleotides), single-stranded RNAs that have been shown to regulate gene expression through irregular base pairing to the 3’-untranslated region of target mRNAs. Although miRNAs do not code for proteins, they play an important role in post translational gene expression regulating families of genes involved in developmental, cell death, metabolism, and disease. First described by Victor Ambros in *c. elegans*, miRNAs have been found in nearly every biological system examined with more than 800 described in humans. A number of companies have developed strategies targeting miRNAs as a novel class of therapeutics to treat cancer and diseases of the cardiovascular and renal systems. The proposed symposia speakers include: Deidre MacKenna, Ph.D. (Regulus Therapeutics) to provide an overview of miRNAs and their role in human disease; Eva van Rooij, Ph.D. (Miragen Therapeutics) to discuss miRNAs as a novel treatment for cardiovascular disease; Eric G. Marcusson, Ph.D. (Regulus Therapeutics) will review miRNA as a therapeutic target in hepatocellular carcinoma; and Zheng Dong, Ph.D. (Medical College of Georgia) will review the role of miRNAs in renal disease. Attendees will gain a broad appreciation for the role of miRNA in pathophysiology of disease along with an appreciation for how miRNAs may be novel therapeutic targets.

The PIC Novel Disease Model Award is now sponsored by Plato BioPharma, Inc., a world leader in *in vivo* model development and execution. The PIC Novel Disease Model Award will be granted to a graduate student and a postdoctoral fellow who submit the best abstracts at EB 2012 that describe a novel disease model. The model can be *in vitro* or *in vivo* but should clearly emphasize the potential utility of the system for future research related to a disease. The award is $500 for the graduate student and $800 for the postdoctoral fellow categories, respectively, and will be presented at the APS Business Meeting on Tuesday, April 24, 6:00 – 7:30 pm in the Convention Center, Ballroom 20ACC.

You're invited! Come meet, eat, and socialize with your fellow Physiologists who are working in the corporate, industrial, academic, or government sector. The 12th Annual Physiologists in Industry Committee Mixer at EB 2012 is on Sunday, April 22, 6:45 – 8:00 pm, Irvine Room, San Diego Marriott. Free Hors d’oeuvres will be available along with information on the roles of Physiologists in Industry. This is a great opportunity to network with industry and academic APS members alike – we hope to see you there!

The APS PIC meeting is scheduled for Sunday, April 22, 2:30 pm, Coronado Room, San Diego Marriott – this is the committee’s annual opportunity to have a face-to-face meeting to discuss committee business and new initiatives. Please feel free to contact your PIC section representative if there are issues to be brought to the attention of the PIC.

9. Nominations Committee: Michael Hill, Ph.D., Chair

Nominations were recently solicited for positions on the Awards; Fellowship; Training; Industry Liaison; NIH HLBI Liaison; and Nominating Committees. A total of 35 nominations were received for 22 open positions. An election is due to be held for four positions on the Nominating Committee while the other applications are being ranked by the current Nominating Committee and recommendations will be made to the Steering Committee. Results of these processes will be available after the upcoming Experimental Biology Meeting.

The Nominating Committee would like to thank all those submitting nominations and encourage others to consider CV Section Committee service next year.

Thanks are also extended to James Dobson, Ph.D. who recently resigned from the Nominating Committee on retiring from his academic position.
10. Report from William Stanley (Editor of AJP Heart and Circulatory Physiology):

Over the last year we have launched many new features and initiatives aimed at increasing the impact and quality of the journal:

The Featured Article list on the journal homepage (http://ajpheart.physiology.org/) sets the stage for our Podcasts (http://ajpheart.podbean.com/), lively audio editorials offering our readers a conversation with the author and our experts about the impact and relevance of the work, and implications for future research. Listeners can sign up to receive email notification (http://www.podbean.com/mailinglist_join?channel=ajpheart) for each newly published podcast and sign up for our podcast RSS feed. http://ajpheart.podbean.com/feed/

- Our Table of Contents is grouped by topic area, making it easier for readers to navigate the content of each issue. Our Article Collections (http://ajpheart.physiology.org/cgi/collection/) offer readers one-stop-shopping for Review articles and Standards and Guidelines articles.
- Beginning in January 2012, AJP-Heart and Circ is now publishing twice monthly and online-only!
- Our journal homepage offers readers new features and content, including an animated journal cover. Watch This @ AJP-Heart and Circ (http://ajpheart.physiology.org/site/watch_this.xhtml) showcases digital media content and video supplements relevant to your research.
- We continue to push the envelope with our Facebook page and Twitter feed, sharing TOC alerts, "must-read" articles, podcast alerts, APS information resources, and more.

I want to thank our dedicated editorial team of Associate Editors, Consulting Editors, and editorial staff for ushering the journal into a new digital age. Without the wonderful support of our Editorial Board and ad-hoc reviewers, however, the journal would be nothing. With the depth of expertise we all bring to the table, we have together transformed AJP-Heart and Circ into a modern e-pub bringing the very best in cardiovascular physiology literature to our readership. We continue to provide fast and fair reviews, with an average time to decision of 18.6 days, with clear and instructive decision letters. Submit your work now!

CV Section Committees are found at http://www.the-aps.org/mm/hp/Audiences/Sections/Sample-Category-1/steering.html

Proceed to next page for Symposia
# 11. Joint Programming Committee:
Merry Lindsey, Ph.D., and William F. Jackson, Ph.D., CV Section Representatives.

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<thead>
<tr>
<th>Lecture Title</th>
<th>Proposed day/ time</th>
<th>Chair</th>
<th>email</th>
<th>Co-Chair</th>
<th>email</th>
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<tbody>
<tr>
<td>&quot;Robert M. Berne Distinguished Lectureship of the APS Cardiovascular Section</td>
<td>Tuesday 2:00-3:00 pm</td>
<td>Rhian M. Touyz</td>
<td><a href="mailto:rtouyz@uottawa.ca">rtouyz@uottawa.ca</a></td>
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### Symposia

1. **A complex interplay coming together to build the heart**
   - Sun 8:00 am
   - Maike Krenz
   - krenzm@missouri.edu
   - Luis Polo-Parada
   - poloparadal@missouri.edu

2. **Emerging Paradigms in Inflammation and Microvascular Dysfunction: Novel Insights and Future Trends**
   - Sun 8:00 am
   - Sanjukta Chakraborty
   - schakraborty@tamhsc.edu
   - Mariappan Muthuchamy
   - marim@tamu.edu
   - yes

3. **Control of Vascular Tone by Extraluminal Nucleotides**
   - Sun 10:30 am
   - Brett S. Kirby
   - Brett.Kirby@colostate.edu
   - Stefan P. Mortensen
   - stefan@emrc.dk
   - yes

4. **Systems Biology of Cardiovascular Genomes and Proteomes**
   - Sun 3:30 pm
   - Joseph Loscalzo
   - jloscalzo@partners.org
   - Tom Vondriska
   - TVondriska@mednet.ucla.edu

5. **Physiological Remodeling of Resistance Arteries**
   - Tue 3:30 pm
   - Judy M. Delp
   - jdelp@ufl.edu
   - Michael D. Delp
   - mdelp@ufl.edu

6. **Mitochondrial Dynamics in Cardiac Physiology**
   - Wed 8:00 am
   - William C. Stanley
   - wstanley@medicine.umar yland.edu
   - Julie Rennison
   - rennisj@ccf.org
   - yes

7. **Insulin Resistance: A defense mechanism for the stressed heart?**
   - Wed 10:30 am
   - Heinrich Taegtmeyer
   - Heinrich.taegtmeyer@Uth.tmc.edu
   - Louis Hue
   - Louis.hue@uclovain.be

Proceed to the next page for the Featured Topics Schedule.
<table>
<thead>
<tr>
<th>Featured Topics</th>
<th>Lecture Title</th>
<th>Proposed day/time</th>
<th>Chair</th>
<th>email</th>
<th>Co-Chair</th>
<th>email</th>
<th>Trainee Led</th>
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<tbody>
<tr>
<td>1</td>
<td>Microvascular permeability; paracellular versus transcellular transport</td>
<td>Sun 10:30 am</td>
<td>David Lominadze</td>
<td><a href="mailto:dglomi01@louisville.edu">dglomi01@louisville.edu</a></td>
<td>Martha O’Donnell</td>
<td><a href="mailto:meodonnell@ucdavis.edu">meodonnell@ucdavis.edu</a></td>
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<tr>
<td>2</td>
<td>Communication between Cardiac Cells and the Extracellular Matrix</td>
<td>Mon 8:00 am</td>
<td>Jiang Chang</td>
<td><a href="mailto:jchang@ibt.tamhsc.edu">jchang@ibt.tamhsc.edu</a></td>
<td>Jason Gardner</td>
<td><a href="mailto:jgardn@lsuhsc.edu">jgardn@lsuhsc.edu</a></td>
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<td>3</td>
<td>Wiggers Award Featured Topic</td>
<td>Mon 10:30 am</td>
<td>Clinton Webb</td>
<td><a href="mailto:CWEBB@georgiahealth.edu">CWEBB@georgiahealth.edu</a></td>
<td>Erika Westcott</td>
<td><a href="mailto:erika.westcott@gmail.com">erika.westcott@gmail.com</a></td>
<td>yes</td>
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<td>4</td>
<td>Emerging Paradigms in Microvascular Signaling</td>
<td>Mon 3:30 pm</td>
<td>Adam Straub</td>
<td><a href="mailto:Acs5k@virginia.edu">Acs5k@virginia.edu</a></td>
<td>Erika Westcott</td>
<td><a href="mailto:erika.westcott@gmail.com">erika.westcott@gmail.com</a></td>
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<td>5</td>
<td>Transient receptor potential (TRP) channels and endothelial calcium regulation in native cells and whole vessels</td>
<td>Tue 8:00 am</td>
<td>Sean Marrelli</td>
<td><a href="mailto:Marrelli@bcm.edu">Marrelli@bcm.edu</a></td>
<td>Scott Earley</td>
<td><a href="mailto:Scott.Earley@colostate.edu">Scott.Earley@colostate.edu</a></td>
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<td>6</td>
<td>Targeted Proteomic Analyses of Heart Failure</td>
<td>Tue 10:30 am</td>
<td>Peipei Ping</td>
<td><a href="mailto:peipeiping@earthlink.net">peipeiping@earthlink.net</a></td>
<td>Merry Lindsey</td>
<td><a href="mailto:lindseym@uthscsa.edu">lindseym@uthscsa.edu</a></td>
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<td>7</td>
<td>Novel regulators of cardiac fibroblast function and fate</td>
<td>Wed 8:00 am</td>
<td>Michael P. Czubryt</td>
<td><a href="mailto:mczubryt@sbc.ca">mczubryt@sbc.ca</a></td>
<td>Heinrich Lob</td>
<td><a href="mailto:heinrich.lob@gmail.com">heinrich.lob@gmail.com</a></td>
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<td>8</td>
<td>Leptin: Metabolic, Cardiovascular and Immune control. Does it all come from the brain?</td>
<td>Wed 3:30 pm</td>
<td>Eric J. Belinde Chantemele</td>
<td><a href="mailto:ebelindechante.me@georgiahealth.edu">ebelindechante.me@georgiahealth.edu</a></td>
<td>Heinrich Lob</td>
<td><a href="mailto:heinrich.lob@gmail.com">heinrich.lob@gmail.com</a></td>
<td>yes</td>
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<tr>
<td>9</td>
<td>Diabetic cardiovascular dysfunction: ROS dependent and independent causes and complications</td>
<td>Wed 3:30 pm</td>
<td>Loren Wold</td>
<td><a href="mailto:Loren.Wold@nationwidechildrens.org">Loren.Wold@nationwidechildrens.org</a></td>
<td>J Gary Meszaros</td>
<td><a href="mailto:jgmeszar@neoucom.edu">jgmeszar@neoucom.edu</a></td>
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