



The Histochemical Society NEWSLETTER

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The Histochemical Society
www.histochemicalsociety.org
www.jhc.org

Letter From the HCS President Linda Sandell



Dear Colleagues,

It is with great pleasure that I assume the Presidency of the Histochemical Society for 2007/2008. First, I would like to thank Hinke Multhaput, for the outstanding work she and the program committee did in planning the 2007 HCS meeting in conjunction with the American Society for Investigative Pathology at the FASEB meeting in Washington DC in April. The meeting was a great success, and well attended by members of the HCS community, and our sessions were well attended by members of other societies of FASEB. The session on "Tissue fixation for molecular analysis in pathology and cell biology" was standing

room only! Also at the meeting, we accepted a record number of new members to the HCS recruited by the Membership Committee lead by Kelly Murphy. Our Journal booth staffed by Meg McGough, Tanda Jaipen, Suzanne Paquette and members of the Council, was a great success and broadcasted the advantages of membership as well as the virtues of publishing in the *Journal of Histochemistry and Cytochemistry*. A particular success was the recruitment of new student members.

Over the next year, we will be meeting specific challenges. We are addressing significant increased costs of publishing a society journal. Led by the Editor-in-Chief of the Journal, Kevin Roth, and guided by the Publication Committee headed by Antonio Nanci, the decision has been made to discontinue underwriting the cost of the print journal.

For the past three years, we have based the price of the Journal on the online edition and run a deficit on the print journal. The time has come to separate editions and their actual costs. Those interested in receiving the print Journal may still



The Histochemical Society Officers

President

SANDELL, Linda
Washington University School of
Medicine
E-mail: sandell@wudosis.wustl.edu

President-Elect

WEIER, Heinz-Ulrich
Lawrence Berkeley National
Laboratory
E-mail: ugweier@lbl.gov

President-Elect Designate

ROSA-MOLINAR, Eduardo
University of Puerto Rico-Rio Piedras
E-mail: ed@hpcf.upr.edu

Past-President

MULTHAUPT, Hinke A. B.
University of Copenhagen
E-mail: h.multhaupt@bric.dk

Secretary/Treasurer

FREVERT, Charles W.
VA Medical Center, Seattle
E-mail: cfrevert@u.washington.edu

Councilors

LEVENSON, Richard (2007-2011)
CRI, Inc.
rlevenson@cri-inc.com

OSAMURA, R.Y. (2004-2008)
Tokai University School of Medicine
E-mail: osamura@is.icc.u-tokai.ac.jp

SAWTELL, Nancy (2007-2011)
Cincinnati Childrens Hospital
E-mail: nancy.sawtell@chmcc.org

SHACKA, John (2007-2010)
University of Alabama, Birmingham
E-mail: shacka@uab.edu

SHI, Shan-Rong (2006-2010)
University of Southern California
E-mail: sshi@hsc.usc.edu

WIGHT, Thomas (2006-2010)
Benaroya Research Institute
E-mail: twight@benaroyaresearch.
org

Executive Director

STAHL, William L.
E-mail: wstahl@u.washington.edu

HCS President's Letter cont.

do so but at an additional cost. This move will help the HCS retain its leadership position in publishing the best manuscripts in our area.

The second challenge for the next year is to complete our move to having our meetings coincide with a FASEB society over the next few years. This move from independent meetings to meetings with other societies will help to increase the awareness of our Society and provide our members with a broader range of topics to attend during the annual meeting. Each year, we will meet as a guest of a FASEB society. For example, in 2007, we were the guest of the American Society for Investigative

Pathology and in 2008 we will be the guest of the American Society for Biochemistry and Molecular Biology. The 2008 meeting will be held in San Diego April 5-8.

Lastly, I would like to dedicate this Presidency to the memory of Dr. Ronald Cowden, a charter member of the Society who passed away last year (see memorial in this Newsletter). Dr. Cowden initiated me into histochemistry and science and I am very grateful to him.

Warmest Regards to Everyone,

Linda Sandell

NEW MEMBERS

We welcome the following new members to HCS

Regular Members

Brent Bany
Southern Illinois Univ Schl of Med

Mohammad Alavi Tafreshi
Univeristy of Southern California

Margarida Barroso
Albany Medical College

Anthony T Yachnis
University of Florida

Liang ChengIndiana
University / Clarian Pathology Lab

Atsuko Yoneda
University of Copenhagen

Jonathan Feig
New York University School of
Medicine

Meredith Halks-Miller
NPATHY Consulting

Mary Iruthayanathan
Univerisiy of Iowa / VA Medical
Centre

Suguru Nakamura
Murray State University

Jingxin Qiu
University of Florida

Neils Norton
Creighton University

Aloisia Schmid
University of Utah

Sergio Rey
Pontificia Universidad Catolica de
Chile



NEW MEMBERS

We welcome the following new members to HCS

Associate Members

Kristen N. Ameen	Rumela Chakrabarti Kent State University	Charmaine O'Brien Meharry Medical School
Philippe Cammisotto University of Montreal	Elizabeth Crittenden Texas State University	Andreea Popa UK College of Medicine
Jessica Cervantes Bend Research, Inc.	Sussan Ekejiuba Howard University	Yan Qui Case Western Reserve University
Chanut Franck MDS Pharma Services	Bradley Ferguson University of North Carolina, Greensboro	Shandilya Ramdas Kent State University
Ying Geng University of Alabama, Birmingham	Karishma Fernandes University of North Carolina	Glenn Simmons Meharry Medical College
Barbara Kalinowska Cincinnati Children's Hospital	Melody FrancisU University of Montreal, Baltimore	Grace Snow Dartmouth College
Julian Laubenthal Lawrence Berkeley National Laboratory	Pallavi Gupta University of Ottawa	Brent Thompson Vanderbilt University
Noelle Linke Allergan, Inc.	Bupe Martha Haiyambere Appalachian State University	Morgan Thompson Appalachian State University
Pamela G Neill Alcon Research	Ginger Hindman Appalachian State University	Kent Zhi Qiang Wang Dequense University
Jeanne S Reis BIOGENIDEL, Inc	Shiyuan Hong Case Western Reserve University	Michael Weintraub Columbia University
Ronak K Talati Albany Medical College	Asiful Islam Harvard Medical School	Junying Zheng University of Alabama, Birmingham
Ken C Walls University of Alabama, Birmingham	Sung Yul Kim Korea University	
Brandon M Welch University of Utah	Wenli Ma University of South Carolina	
Giulianna Borges FMRP / University of Sao Paolo	Delina Montes-Sanchez UNAM	
Rodrigo Castro NIH	Allison Newell Appalachian State University	



HCS Membership Committee Report

Committee Members: John Shacka, Chair; Przemek Krawczyk; Chishimba Natham Mowa; Kelley J. Murphy
2007 Membership Drive

As of June, 2007, HCS has a total active membership of 357. This includes the addition of 28 new Members that joined on site at the 2007 Experimental Biology Meeting in Washington, D.C. Although our numbers have held steady over the past five years, there will always be a need to maintain an active membership to ensure the future identity and vitality of our Society.

As the newly appointed Chair I would like to personally challenge each current Member to recruit at least one new colleague to apply for membership, with a reasonable goal of surpassing 500 total active Members by the 2008 Meeting in San Diego, CA. We as a membership should take pride in our Society and “talk it up” to colleagues with similar interests that may benefit from interacting in a small Society such as ours. Please remember that only Members of the Society are eligible for Society-sponsored travel awards, so students and post docs that may qualify for travel awards to attend Experimental Biology meetings are particularly encouraged to apply for membership.

John Shacka, Chair

Four Scientists Waiting for a Bus



Four HCS Past-Presidents share a bench at EB2007. Left to right: John Couchman, Paul Nakane, Bill Stahl, and Brad Schulte.



SHORT COURSE – *First Announcement*
Principles and Applications of Immunocytochemistry
April 5, 2008 8 AM-5 PM, San Diego, CA

Organized by the Histochemical Society in association with the American Society for Biochemistry and Molecular Biology to precede EB2008.

Course Goal:

To understand basic principles and application of immunocytochemistry for research in biochemistry, molecular biology, cell biology, pathology and other disciplines. Both academic and industry scientists will benefit from this course.

TOPICS

- Concepts related to the practice of immunocytochemistry
- Sample preparation – fixation
- Antibodies
- Detection methods- classic, fluorescence
- Antigen retrieval
- Amplification methods
- Controls
- Double-labeling and localization strategies
- Combining ICC with other methods
- Interpreting microscopic images from ICC

Organizers: Denis G. Baskin and William L. Stahl

Speakers: Gwen Childs, Richard Burry, Allen Gown, Gloria Hoffman, Kevin Roth, Alison North

For registration information contact: Meg McGough at

The Histochemical Society, 206-616-5895 or mcm5@u.washington.edu

For information on the scientific issues contact: Dr. W.L. Stahl at mail@histochemicalsociety.org.

All participants receive hardcopy syllabus which contains contributions (e.g. protocols, basic sense of presentation) from each speaker.

For registered participants, PowerPoint presentations (PDF file) will be available after the course on The HCS website.



Preliminary Program

*Annual Meeting of the Histochemical Society
Joint with the American Society for Biochemistry and Molecular Biology
at Experimental Biology 2008, San Diego, California
April 6-7, 2008*

The Journal of Histochemistry and Cytochemistry Plenary Lecture:

*Genome-wide mapping of gene expression in the adult mouse brain
Ralph B. Puchalski, Allen Institute for Brain Science, Seattle*

Joint Symposium of HCS and ASBMB

Live Imaging of Developmental Processes

Chairs: Linda Sandell (Washington University) and Robert Mecham (Washington University)

Time-lapse imaging of extracellular matrix assembly

Jennifer Wagenseil, Washington University School of Medicine, St. Louis

Time-lapse confocal analysis of cell movement in the embryo

Paul Kulesa, Stowers Institute For Medical Research, Kansas City

Computational analysis of local motion versus tissue displacement in early embryos: which cells are really moving and where are they going?

Charles Little, The University of Kansas Medical Center, Kansas City

HCS Workshop

Laser Capture Microdissection for Molecular Analysis

Chairs: Denis Baskin and Thomas Wight

Laser capture microscopy as a tool for deciphering the clinical relevance of molecular signatures of cancer cells.

James Wittliff, University of Louisville, Louisville

Coupling LCM to gene expression and microproteomics: novel approaches to molecularly define pediatric coronary artery intimal occlusive lesions

Amy L Juraszek, Children's Hospital Boston, Harvard Medical School, Boston

The Use of LCM for Proteomic Analysis of Inclusions in Neurodegenerative Disease

Thomas Montine, University of Washington, Seattle

HCS Symposium

Phenoms in the Phenome: Experts in Cellular Imaging from Single Molecules to Mice

Chairs: Richard Levenson and Eduardo Rosa-Molinar

Speakers and titles to be announced



Past Presidents Report

The 58th annual meeting of the Histochemical Society was held at The Convention Center in Washington DC from April 28 to May 2, 2007. We were a guest Society of the American Society of Investigative Pathology as part of EB2007. Our members therefore had the benefit of a large array of sessions, exhibits and posters to attend. In all over 12,000 people attended EB2007.

The HCS arranged one symposium on “Trends in Experimental Pathology: Imaging and Histochemistry“, held on April 30. At this session, chaired by Elizabeth Unger and myself, four speakers talked on a range of subjects, united by the theme of imaging techniques. The session was begun by **Dr. Sophie A. Lelievre** from Purdue University, who talked about “Quantitative Imaging of Nuclear Organization”. This presentation covered the interest of researchers, but also discussed the possible diagnostic purposes. Next were two speakers from Imperial College London. First, **Dr. Tony Magee** highlighted signaling complexes associated with lipid rafts, and microscopy of cell-cell interactions in the immune system. Included were some fascinating video images of antigen presenting cells, using the techniques of FLIM and FRET. Second, with a theme of cell-extracellular matrix interactions, **Dr. John Couchman** talked about signalling through cell surface receptors to the cytoskeleton. The message from this talk is that multiple imaging techniques, ranging from single molecule through TIRF to image the subcellular cytoskeleton organisation are required to understand how information is integrated at the cell surface. By way of something completely different, **Dr. Robert Hoffman** from AntiCancer in San Diego showed in vivo imaging of tumorigenesis, with some fascinating views of tumor cell migration through the vasculature.

The HCS also organised two workshops, on tissue banking and fixation methods in immunocytochemistry. Both were popular, the second being standing room only! It's clear that the Society should maintain its standing as a source of information and experience for those entering the world of immunocytochemistry. Tissue banking, chaired by **Gavin J. Gordon** and myself, started off with a session on regulatory and legal aspects followed by a presentation on logistics and information system issues. Other important issues covered were specimen quality control and sample preservation. **Dr. Stephen M. Hewitt** demonstrated the application of tissue arrays in biomedical research.

The second HCS workshop on “Tissue Fixation for Molecular Analysis in Pathology and Cell Biology” was chaired by **Drs. Denis Baskin and Shan-Rong Shi**. Here, effects of different fixatives on tissues, further used for protein or nucleic acid analysis, were covered in fine detail. The overwhelming attendance to this workshop emphasized the role the Society has to play in communicating histochemical topics.

In all this year's meeting was a great success, and of course, there were many sessions from other participating societies for us to enjoy. Our booth, manned by the Seattle team of Tanda, Meg and Suzanne, and from time to time by past presidents and current council members, received significant interest, and many new members and student members were signed up.

Many people made this meeting possible, and thanks must go to the members of our HCS office in Seattle and to **Tara Snethen and Dr. Mark Sobel** of the ASIP office in Bethesda. It was very satisfying to see the fruits of all their hard labor, and certainly the EB format is one that once again has proved its worth. Next year we shall again be part of EB, but as a guest Society of American Society for Biochemistry and Molecular Biology (ASBMB). Please mark the dates in your diary for April 5-9 in San Diego. **Dr. Linda Sandell**, who as the current HCS President, has organised a first class itinerary.

It has been a privilege to have served as President for The Histochemical Society, and I wish all members good health and good science.

With best wishes,
Hinke Multhaupt
Past-President

Paul Nakane Receives the Gomori Award



Paul Nakane and wife Cynthia

Joe Mazurkiewicz presented the George Gomori award on behalf of the Society at 2007 business meeting. Following are the comments he made at that time.

I am extremely pleased to have been asked to present The George Gomori Award for 2007 to Dr. Paul Kazuo Nakane. The George Gomori Award is the highest award offered by The Histochemical Society. The award was established to honor Dr. George Gomori by recognizing outstanding contributions to the field of histochemistry and cytochemistry by a member of the Histochemical Society over the arc of a scientific career.

Dr. Gomori was one of the founders of The Histochemical Society in 1950, serving on the first council, and then as Vice President in 1956 and President in 1957. Dr. Gomori's noteworthy contributions to research drew attention in 1938, when, with his classical paper on the histochemical localization of alkaline phosphatase, a new epoch in morphologic investigation was

initiated. This new field of enzyme histochemistry was extended as his work developed methods to demonstrate acid phosphatase, phosphamidase, esterase, lipase and oxidase in tissue sections. The chrome alum hematoxylin and aldehyde fuchsin stains for pancreatic islet cells had direct clinical application to diabetes and endocrinology. In 1952, these innovative techniques were summarized in the publication of **Microscopic Histochemistry**, a concise and comprehensive text with personal notes.

The George Gomori Award was established in 1987 and the previous recipients of this award are Charles Leblond in 1987; Samuel Spicer in 1991; Paul Anderson in 1995; Marilyn Farquhar in 1999 and Morris J. Karnovsky in 2003. With today's presentation, Paul will join this pantheon of Histochemists and Cytochemists. As I describe contributions of Dr. Nakane to the discipline of Histochemistry and Cytochemistry, I am sure you will find it as interesting to note as I did, the auspicious positioning of this recipient directly following that of Morris Karnovsky and will see the direct connection to the work of the namesake of this award.

So what are the scientific achievements we are recognizing here today with the presentation of the George Gomori Award to Paul Nakane? Like the namesake of this award, Paul's work in the late 1960s opened a new epoch in histochemistry and cytochemistry with the development of the peroxidase-labeled antibody technique. One

of two groups to independently propose the coupling of proteins with enzymes for their use in the detection of antigens in cells and tissues, Paul, along with G. Barry Pierce, was the first to report on the application of the enzyme-labeled antibody technique at the light and electron microscopic level with the localization of the epithelial basement membrane of parietal yolk sac carcinoma of the mouse using antibodies that were labeled with acid phosphatase or horse radish peroxidase. It's with this work that I refer back to my statement at the beginning about the connection between Paul's groundbreaking work and that of Gomori and Karnovsky. Gomori's enzyme histochemical protocol was devised to detect endogenous tissue acid phosphatase by the localization of its enzymatic activity, Paul's genius was in coupling that enzyme to a very specific probe, an antibody, and then to use the activity of the coupled enzyme to localize the antigen to which the antibody was directed. Because the enzyme is not consumed in the reaction, an amplification step was built into the method. Specificity and sensitivity were achieved in a single stroke. The connection with Karnovsky came from Paul's use of horseradish peroxidase as the enzyme label. The histochemical demonstration of HRP had just been published by Graham and Karnovsky in the first issue of volume 14 of The Journal of Histochemistry and Cytochemistry for 1966. Paul's description of his method for the preparation and application of enzyme-labeled antibodies appeared in issue 12 of the same volume of the JHC. In the immediate and in ensuing



Paul Nakane Receives the Gomori Award cont.

years, the peroxidase-labeled antibody technique was improved and its use was extended to the simultaneous localization of multiple antigens at the light and ultrastructural level in a variety of tissues and organs. Together with graduate students, post-docs and medical residents working in his lab, new ways to efficiently conjugate peroxidase to a variety of proteins and new fixation protocols to preserve the antigenicity of tissue antigens such as the PLP method were developed, and, an old embedding medium, polyethylene glycol, was adapted for the sequential visualization of the localization of an antigen, first at the light

microscope level and then the same specimen viewed in the electron microscopic. Paul pioneered new methods of non-radioactive *in situ* hybridization to localize mRNA at the light and ultrastructural levels. You've all heard of Northern, Southern and Western blotting – Paul's lab introduced the application of Southwestern histochemistry as exemplified by the localization of glucocorticoid receptors in tissue sections using a DNA probe containing glucocorticoid responsive element DNA consensus sequences. His latest research project involves the development of a clinical medical test to identify specific antibiotics

that are effective against infectious bacteria and fungi within two hours after receiving clinical specimens from infected patients. Always ahead of the curve, Paul is now interested in determining which current histochemical methodology can be used with the new clinical imaging modality microMRI, high-resolution micro magnetic resonance imaging.

It's for this body of work in the discipline of histochemistry and cytochemistry that The Histochemical Society presents to Dr. Paul Kazuo Nakane the George Gomori Award.

Joseph E. Mazurkiewicz.

Atsuko Yoneda Named Outstanding Young Investigator



Atsuko Yoneda received the Outstanding Young Investigator Award and an HCS Travel Award. Her presentation was entitled, "The Rho kinases (ROCK I and II) regulate different aspects of myosin II-driven contractility".

She received her Ph.D. in 1997 at Ochanomizu University (Prof. Haruko Ogawa laboratory). She was a postdoctoral fellow with Dr. Toru Imamura at National Institute of Bioscience and Human Technology (1997-2001) and a

research associate with Prof. John R. Couchman at Imperial College London (2001-2007).

She is currently an Associate Professor in the Faculty of Health Sciences, University of Copenhagen and works with Prof. Ulla Wewer. Her research interests are to reveal the crosstalk between transmembrane receptors (integrin and proteoglycan) in normal and tumor cell adhesion/migration.

Future Meetings of the Histochemical Society

2008

Joint with the American Society of Biochemistry and Molecular Biology
at Experimental Biology 2008
San Diego Convention Center
April 5-9, 2008

2009

Joint with the American Association of Anatomists
at Experimental Biology 2009
New Orleans Convention Center
April 18-22, 2009



2007 Student Travel Award Recipients



Philippe Cammisotto received undergraduate and graduate degrees in France and the Ph.D. at the University Laval in Quebec in 2004 working on leptin secretion by adipose tissue. He currently works as a postdoctoral fellow in Moise Bendayan's Laboratory at the University of Montreal: his work centers on the secretion of leptin by the gastric mucosa. Projects include study of the role of gastric leptin in the regulation of enteric hormones and their role in the process of food intake. His presentation at EB2007 was entitled: Exocrine secretion of the leptin-leptin-receptor complex by the gastric mucosa.



Ying Geng, received undergraduate and graduate degrees at Peking University before becoming a graduate student in the Molecular and Cellular Pathology Ph.D. program at the University of Alabama at Birmingham. She currently works in Kevin Roth's Lab on neural stem cell death pathways. Her poster presentation was entitled: Differential p53 Regulation of Neural Precursor Cell Death.



Julian Laubenthal was born in Cologne, Germany and received his B.S. in medicine in 2004 and has done postgraduate training at the University of Cologne, University of Hamburg and in New Zealand. He is currently a graduate student in Ulli Weier's Laboratory at the University of California, LBNL. His presentation at EB2007 was entitled, High resolution multi-color detection of oncogenic rearrangements in single cells – molecular staging of tumors based on their 'oncogene rearrangement status'.

Member Trust Endowment Established.

Beginning in 2006, The Histochemical Society established a permanent Endowment fund to secure future Society programs. The Member Trust endowment is a protected fund providing an opportunity for our members to contribute to an endowed scientific session at our annual meeting, travel support for students, or other specific needs identified by the Gift Acceptance Committee of The Histochemical Society.

Your contribution to The Histochemical Society Member Trust secures our focus on expanding the role of histochemistry and cytochemistry in science. Tax-deductible contributions may be made on a one time basis, annually, or through bequests in wills. The documents for bequests are available upon request from the HCS Business Office and soon on the HCS webpage. Optional tax-deductible contributions may also be made when annual dues are paid.



2007 Student Travel Award Recipients



K.C. Walls is currently a graduate student in the Cell Biology Program at the University of Alabama at Birmingham. He received his B.S. in biology/chemistry at Lindenwood University in 2001. His current research is on programmed cell death in the developing brain, and can be characterized as either apoptotic (type I programmed cell death) or autophagic (type II programmed cell death). Autophagic cell death is defined morphologically by accumulation of autophagosomes in a cell that simultaneously display features of apoptosis and/or necrosis. His thesis is focused on testing the hypothesis that autophagic cell death is triggered by lysosomal dysfunction and is regulated by p53 and Bcl-2 family members. His presentation at EB2007 was: Alternative death pathways in neural stem cells.



Jingxin Qiu. At the annual meeting Jingxin was the recipient of the “Rubinstein Award for Best Paper on Neuro-oncology Presented at the Annual Meeting” from the American Association of Neuropathologists and an HCS travel award. His poster presentation was entitled “Grade-Dependent Expression And Subcellular Distribution of JAZ In Human Gliomas”. He received his M.D. from the Beijing Medical University in Beijing, PR China and Ph.D. in Neuroscience from University of Texas Medical Branch at Galveston, TX. His current translational research focuses on understanding the mechanism of glioma tumorigenesis and searching for novel drugs for glioma therapy. He is currently a Neuropathology Fellow at University of Florida and will join the UF Department of Pathology to be a junior faculty member after completion of his fellowship training.



Ronak Talati presented his work: “FRET Based Assay Measures the Organization of LDL-LDL-R Complexes During LDL Trafficking” at the annual meeting. He received his B.Sc. in Biochemistry and Biophysics from Rensselaer Polytechnic Institute (RPI) in 2006. He is currently a medical student in the physician-scientist training program at Albany Medical College. He works with Dr. Margarida Barroso on fluorescence and imaging technologies.



HCS BUSINESS MEETING MINUTES

April 30, 2007, 6:00 PM, Renaissance Hotel,
Washington, D.C.

The business meeting was preceded by a reception and a research presentation by **Atsuko Yoneda**, recipient of the HCS Outstanding Young Investigator Award.

Attendance – Officers: President Hinke Multhaupt, President-Elect Linda Sandell, President-Elect Designate Heinz-Ulrich Weier, Past-Presidents Joseph Mazurkiewicz and John Couchman, Chair Past Presidents Committee. Councilors: Antonio Nanci, Kelley Murphy, R.Y. Osamura, Eduardo Rosa-Molinar, Shan-Rong Shi, John Shacka, Nancy Sawtell, Richard Levenson. Editor-in-Chief (*the Journal of Histochemistry and Cytochemistry*) Kevin Roth, Executive Editor Denis G. Baskin. Executive Director William Stahl; Subscriptions and Marketing Manager Meg McGough; Executive Secretary Tanda Jaipen. A number of guests from the The American Association of Investigative Pathologists (ASIP) were also present. Total attendance: 50.

1. **Call to Order.** The President convened the meeting at 6:00pm and welcomed the Officers, Councilors, members, and guests.

2. **President's Report.** The President reported that 21 students and three regular members joined the Society during EB2007. Approximately 60-70 HCS members are in attendance at this year's annual meeting and 24 abstracts have been submitted. The science has been excellent and the Society's symposium and programs have been very well attended.

The format at this year's annual meeting has made planning and organization relatively easy. ASIP has been happy to have us as a guest society and was impressed with our workshop and other sessions.

3. **Secretary-Treasurer Report.** The Treasurer reported on the financial status of the Society. He reported that the strength of our Journal has made the Society financially successful and we are still in a good position. He noted that we are continuing our search for an independent financial advisor.

4. **Editor's Report.** The Editor reported on the success of the Journal. He commented that we are very important to all fields in Science and that the Journal is in a position to bridge the gap between the different fields in science. The Journal is very dynamic and remains valuable to the scientific community. Over the last year we have been recognized for our quick review turnarounds and accept-to-publication timeframe. JHC will be taking a leadership role in the years to come in new innovations in publication and multi-media.

The Editor invited students to contact him to become a reviewer. He noted that this is an important route for them becoming apart of the publication process and can identify them for editorial board positions in the future.

5. **Past-President's Committee Report.** Past-President, John Couchman reported that there is a new committee, the Past-President's Committee, designed to keep past-president involved and have them examine important issues that the Society should deal with. This committee will identify specific items that are critical to the Society's future and make recommendations that will keep the Society strong in the long-term. Recently, the committee has discussed important issues in the world of publishing and how they may affect JHC and the Society. They have also discussed how the Society should situate itself in the future for long-term viability. He noted that the committee's role is strictly advisory.

6. **Executive Director's Report.** The Executive Director commented that Dr. LeBlond, a former President of the Society, passed away this year. He was a giant in the field of autoradiography and made great contributions to science. An obituary will be published in our upcoming newsletter and is currently on the HCS



HCS Business Meeting Minutes, cont.

website.

The Executive Director reported briefly on the newly established Members Trust. The HCS Members Trust is a way to raise funds to help the Society in future years, especially for support of scientific sessions at our annual meeting. He invited members to consider this as a way to leave a legacy gift to the Society either as an immediate restricted gift or through bequests in their wills.

Lastly, he commented that meeting as a guest of another society at FASEB is critical to the profile and success of our Society.

Finally, The plans for the 2008 meeting in San Diego are well developed and HCS will be the guest of the American Society for Biochemistry and Molecular Biology. We have a new initiative for next year at the annual meeting. HCS will conduct a day-long short course on “**Principles and Practice of Immunocytochemistry**” which has been organized and developed by Denis Baskin and Bill Stahl. The course will be well advertised and it is hoped that it will attract a significant number of scientists from the various FASEB societies at EB2008.

7. Membership Report. The Membership Committee Chair, Kelley Murphy, reported that the Society’s current active membership to date is 307 and we expect year-end to be approximately 360. She also announced that we have signed up 24 new members during EB2007 and have accepted 24 members since last year’s annual meeting. The Society continues to attract members from many scientific disciplines and from many different regions of the world.

8. Awards Presentations. The President announced and congratulated the 2007 award recipients. They are as follows:

Gomori Award: Paul Nakane

HCS Outstanding Young Investigator Award:

Atsuko Yoneda

Imperial College London

Travel Awards:

Atsuko Yoneda
K.C. Walls
Ying Geng
Jingxin Qiu
Philippe Cammisotto
Julian Laubenthal
RonakTalati

Imperial College London
University of Alabama at Birmingham
University of Alabama at Birmingham
University of Florida
University of Montreal
University of California, Berkeley
Albany Medical College

Past-President, Joseph Mazurkiewicz announced that Dr. Paul Nakane would be the recipient of HCS’ highest award, the George Gomori Award. Dr. Mazurkiewicz gave a special presentation that discussed Dr. Paul Nakane’s lifetime of work and his continued dedication to and vision in science. He presented the award to Dr. Nakane, a detailed report of his presentation will appear in the next HCS newsletter. (See page 8 of this newsletter.)

9. Introduction of New President, President-elect Designate, and Councilors. The President, Hinke Mulhaupt, and Past-President, Joseph Mazurkiewicz, presented the new Officers and Councilors of HCS. They are as follows:



HCS Business Meeting Minutes, cont.

President: Linda Sandell
President-Elect: Heinz-Ulrich Weier
President-Elect-Designate: Eduardo Rosa-Molinar
Councilors: Richard Levenson
Nancy Sawtell
John Shacka

10. **Comments from the incoming President. Linda Sandell** will be the 2008 President and with the Program Committee is organizing the scientific program for the HCS at EB2008 in San Diego. She commented that one of her goals is to keep the Society invigorated. She reported that the Society's journal will be transitioning to an online only journal soon, and that the Society looks forward to the opportunities that this will bring to our journal with multimedia and live cell imaging.

The President reported that the Society has begun organizing teaching workshops(e.g. Immunocytochemistry at EB2008) and will continue these in the future. The Society will use these workshops to increase its profile with scientists in many disciplines, including cell biologists, pathologists and biochemists.

11. Future Meeting Reports.

a) 2009 Annual Meeting. The incoming President-Elect, Heinz-Ulrich Weier, reported on the upcoming annual meeting for 2009. It will take place at Experimental Biology 2009. The Society is scheduled to meet with the American Association of Anatomists in New Orleans. He noted that the changes with the Society and Journal in the next few years are exciting opportunities and not necessarily challenges.

b) 2010 Annual Meeting. The incoming President-Elect Designate, Eduardo Rosa-Molinar reported that it will take place at EB2010 in Anaheim, CA. He commented that we might consider meeting as a guest of the American Physiological Society (they are the largest society of FASEB).

This annual meeting will also be our joint meeting with The Japan Society of Histochemistry and Cytochemistry. Councilor Robert Osamura confirmed that JSHC has agreed to the joint meeting with our Society and are excited to be part of FASEB.

12. **New Business.** No new business was brought forward.

The President adjourned the meeting at 7:20 PM.

Noted Histochemist Puzzle

The noted histochemist is: PAUL NAKANE.

The winner of the contest is: Arno Schad

Refer to the meeting webpage for 2007: www.histochemistry2007.org.

The solution is as follows.

<u>Photo</u>	<u>Image under photo</u>	<u>Photo</u>	<u>Image under photo</u>
Couchman	Pancreas, murine	Shi	Nucleus
Bottom Panel	Adrenal cortex	Mulhaupt	Actin microfilaments
Unger	Uterus	Top Panel	Kidney, fetal
Baskin	Lung	Roth	Artery
		Gordon	Nucleus, or Neuron
		Hoffman	Esophagus



In Memoriam, Ronald Reed Cowden



PROFESSOR DR. RONALD REED COWDEN died March 17, 2006 in Mobile, Alabama (USA). He was 74.

Dr. Cowden was most renowned for his work in fluorescence cytochemistry, at one time considered one of the three experts in the world, as well as for his research of marine invertebrate embryos and in the quantitative cytochemistry of nuclei. Dr. Cowden had been instrumental in the establishment of the James H. Quillen School of Medicine at East Tennessee State University, Johnson City, Tennessee.

Born in Memphis, Tennessee, he graduated in 1953 from Louisiana

State University with a B.S. in Zoology and German. Dr. Cowden received his Ph.D. from the University of Vienna, Austria, in 1956 with a major in Zoology and a minor in Anthropology. Returning to the United States he completed his Postdoctoral work in the Biology Division at Oak Ridge National Laboratory, Oak Ridge, Tennessee, as a USPH Post Doctoral Fellow. Dr. Cowden spent his career pursuing his passion for researching and teaching biological and medical sciences, and taught at institutions ranging from The Johns Hopkins University, to the University of Florida, LSU Medical Center, New Orleans, and the University of Denver.

In 1975, he became Associate Dean of the basic sciences at the proposed College of Medicine at East Tennessee State University. His international reputation and administrative skills were critical in establishing the school's present position as "one of the best schools in the country for the training of primary care physicians." Dr. Cowden retired in 1986 as Professor Emeritus of biophysics, Department of Cellular Biophysics, the new Medical Department he had established in 1980.

A prolific scientific author, he contributed over 120 articles to professional journals throughout the world. His experience on the editorial boards of eleven international scientific journals, often as an Editor, included: *Histochemical Journal*; *Journal of Experimental Zoology*; *Transactions of the American Microscopical Society*; *The Journal of Morphology*; *Histochemistry*; *Acta Embryologia et Morphologiae Experimentalis*, *Nova Seria*; *European Journal of Histochemistry*; *Aspects of Sponge Biology*; *Developmental Biology of Freshwater Invertebrates*; and *Advances in Microscopy*. Dr. Cowden was listed in *Who's Who in Medicine and Health Care*. He was a member of Sigma Xi, the Histochemical Society of North America (Program chair 1981-84), Tri Beta Science Fraternity (inducted into membership as a sophomore at LSU), the Royal Microscopical Society (Fellow), American Association Zoologists, American Society of Cell Biology, La Asociacion Panamericana de Anatomia, American Association of Anatomists, Society for Invertebrate Pathology, Association of Southeastern Biologists, Society of Western Naturalists and the Society for Developmental Biology.



In Memoriam, Charles Philippe LeBlond



“At the age of 20, I had my first course in histology; I enjoyed it and wondered about coming a histologist. Friends tried to dissuade me: “Histology,” they said, “is a dead horse. The future is in biochemistry.” I chose histology anyway, worked at it for 50 years, and never looked back. Many exciting things happened in the field during these 50 years: a revival of histochemistry, the birth of electron microscopy, and the flowering of radioautography—all powerful kicks for a dead horse.”— **C.P. LeBlond. The Life History of Cells in Renewing Systems. Am. J. Anat. 160:113-158 (1981)**

Dr. Charles Philippe LeBlond, one of the most prominent members and distinguished past President of the Histochemical Society, passed away on April 10, 2007, at his residence in Montreal. Dr. LeBlond started his research in France using synthetic radioactive isotopes to investigate the localization and distribution of biological substanc-

es in tissues and cells. However, his best work was accomplished at McGill University where he and his associates developed the technique of radioautography to locate radiolabeled molecules in tissues and cells. This procedure continues to be used today in a diversity of cellular and tissue systems and has been improved by molecular biologists to detect RNA molecules and to study the localization of genes and DNA sequences.

Dr. LeBlond used radioautography to study the renewal and fate of cells as well as the localization and pathways followed by radiolabeled precursors. Contrary to the prevailing views, Dr. LeBlond demonstrated that most cells and tissues in the adult body undergo continued renewal and that they synthesize different types of macromolecules. Another milestone accomplished in Dr. LeBlond's laboratory was the refinement of radioautography and its application to electron microscopy to exploit the high resolution of this technique. Dr. LeBlond was able to analyze intracellular pathways followed by radiolabeled aminoacids and carbohydrates. He was one of the first to identify the role of different compartments and subcompartments of the cell involved in the biosynthesis and secretion of glycoproteins. Throughout his illustrious career Dr. LeBlond initiated numerous other projects involving immunocytochemistry, both at the light and electron microscope levels, which led to elegant results and important discoveries. These contributions resulted in the publication of 430 scientific papers, many of them still frequently cited. This is truly remarkable considering that pa-

pers in the field of cell biology are often outdated one or two years after their publication. In addition to his passion as a researcher, Dr. LeBlond served as the head of the Department of Anatomy (now Department of Anatomy and Cell Biology) of McGill University for more than 25 years. During that time he developed one of the best international research centres in cell biology and he was the mentor of many prominent colleagues. His contributions to science have been recognized by the deserved receipt of numerous awards and distinctions.

Dr. LeBlond was a Fellow from the Royal Society of London, the Royal Society of Canada, and the American Academy of Arts and Sciences. He received honorary doctorates from Acadia University (1972), McGill University (1982), l'Université de Montreal (1985), York University (1986) and l'Université de Sherbrooke (1988). He was also Companion of the Order of Canada and Officier de L'Ordre National du Québec. He, who has touched the life of many colleagues, former students, and post-doctoral fellows, will be remembered forever.
— *Carlos R. Morales*



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Editorial Office

Dept. of Pathology
Univeristy of Alabama at Birmingham
1530 Third Ave S, SC 961E
Birmingham, AL 35294-0057
Phone 205-934-8344
Fax: 205-934-6700
Email: johc@histochemicalsociety.org

Editor-in-Chief

Kevin Roth
Email: johc@histochemicalsociety.org

Editorial Assitant

Angela L. Schmeckebier
Email: aschmeck@uab.edu

Publication Office

Univeristy of Washington
School of Medicine
Dept. of Biological Structure
Box 357420
Seattle, WA 98195-7320
Phone: Phone: 206-616-5894
Fax: 206-616-5842
Email: johc@histochemicalsociety.org

Executive Editor

Denis Baskin
Email: baskindg@u.washington.edu

Marketing & Subscriptions Manager

Margaret McGough
Email: mmcough@histochemicalsociety.org

Computer and Editorial Specialist

Suzanne Paquette

The Histochemical Society

Administrative Office

P.O. Box 85630, University Station
Seattle, WA 98145-1630
Phone: 206-616-5278
Fax: 206-616-5842
Email: mail@histochemicalsociety.org

Executive Director

William L. Stahl
Email: mail@histochemicalsociety.org

Executive Secretary

Tanda Jaipean
Email: tjaipean@histochemicalsociety.org

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