

The Microcirculatory Society, Inc.

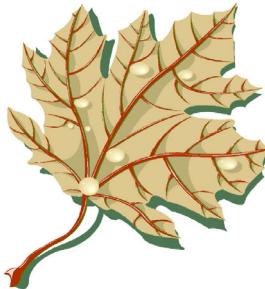
Newsletter

Volume 31, Number 2

Fall 2003

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Officers

President:	G.W. Schmid-Schönbein gwss@bioeng.ucsd.edu
President-elect:	H. Glenn Bohlen gbohlen@iupui.edu
Secretary:	Cynthia J. Meininger cjm@tamu.edu
Treasurer:	Ann Baldwin abaldwin@u.arizona.edu
Web Site:	http://microcirc.org

President's Message

Geert W. Schmid-Schönbein

On November 7 and 8 the Executive Council of the Society will gather for a retreat in the Zweifach Library of the Bioengineering Building on the Campus of the University of California San Diego. The objective of the retreat is to plan the major activities of the Society and to think about its direction.

The last time the Executive Council had the opportunity to think about the many activities of the Society was at a retreat in College Station, TX, under the Presidency of Harris Granger (August 1997). At that time a number of initiatives were undertaken that had an impact on the Society for many years. One of the motions that was passed was that the Executive Council and the Long Range Planning Committee meet in regular time intervals. Thus it is time to think about the next phase of the Society and the new opportunities that have opened up in recent years. We have received several suggestions for topics to be discussed at the retreat and all activities of the Society are open for review. The list includes:

- MCS Association with FASEB
- A Self-standing MCS Fall Meeting

- Programming and Topics to be Supported by the MCS
- National and International Liaison
- MCS Development
- MCS Membership Drive, Membership Categories
- The New Fee Structure of the ESM

If you have suggestions for other topics or wish to share comments, please send these to me by E-mail

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(gwss@bioeng.ucsd.edu). I will communicate your comments to the Council and you can be assured that these will be discussed and taken into consideration in all deliberations. You will also receive a reply from me.

There are a number of other items about which I would like to update you:

The Journal. Our journal *Microcirculation* is now in the 10th year of publication and has made significant progress under the editorship of Neil Granger. All issues since 1998 [including the special issues] are now available on-line at the Society Website. To get access please use your membership pin number. If you don't remember your pin number please contact Bob Gore or look in your confirmation letter from him after payment of your membership dues.

Last year we signed a new publication contract with the Taylor and Francis Group. Effective December 2003, the editorial office of *Microcirculation* will be moving to Western Michigan University. All new manuscripts should be submitted to:

William F. Jackson, Ph.D.
Editor-in-Chief, *Microcirculation*
Dept. of Biological Sciences
Western Michigan University
1903 W Michigan Ave
3441 Wood Hall
Kalamazoo, MI 49008-5410
Editorial Office E-mail:
microcirculation@wmich.edu
Editorial Office Phone: 269-387-3849
Editorial Office Fax: 269-387-2849

Bill Jackson encourages electronic submission of manuscripts (as e-mail attachments) in the form of Word documents or as PDF files. This is especially convenient and also saves time. Reviews are on average rapid and still very thorough. The number of manuscript submissions has increased substantially from year to year. I encourage you to make a special effort to submit high quality manuscripts for publication in *Microcirculation*, and to solicit manuscripts

from colleagues outside the MCS. Bill Jackson encourages you also to submit ideas for Reviews or Special Issue topics. This is a great opportunity to make an important contribution to the mission of the Society and pursue your latest thoughts and research ideas. Please contact Dr. Jackson directly (e-mail: william.jackson@wmich.edu, phone: 269-387-5631; Fax: 269-387-2849). In addition, we encourage all members to request that their libraries subscribe to *Microcirculation*. The health and survival of the journal depends heavily on library subscriptions and individuals at institutions remain the best way to encourage library subscription.

Membership: Dr. Bob Gore, our website guru, has fully installed an on-line form for membership applications. I tried it and it works like a charm. Applications for membership require two Society Sponsors. The forms are greatly simplified and can be found at the following website:

<http://microcirc.org/CGI/MCSMemberApp.html>

If you prefer to submit applications for membership in hard copy, you can print the forms. Please send or fax them to:

Molly (Mary) D. Frame, Ph.D.
Chair, Microcirculatory Society Membership Committee
Department of Biomedical Engineering
Stony Brook University, HSC T18-030
Stony Brook, NY 11794-8181
Phone: 631-444-2320
FAX: 631-444-6646
E-Mail: mframe@notes.cc.sunysb.edu

I encourage you to submit at least one membership nomination during the 50th Anniversary of the Society.

Award Nominations. Note the extended deadline, November 7, for nominations for the Benjamin Zweifach Student Award and the Christian Crone Travel Award. The announcements for the awards can be found in this newsletter and also at the following site:

These are very important recognitions for our young colleagues. Please send your nominations to

Leslie Ritter, Ph.D.
Chair, Microcirculatory Society Awards Committee
College of Nursing and Dept. of Neurology
University of Arizona
P.O. Box 245023, 1501 N. Campbell Ave.
Tucson, AZ 85724-5023
Phone: 520-626-7434
FAX: 520-626-2111
Email: lritter@nursing.arizona.edu.

Officer Nominations. There is one more task. Please nominate individuals for MCS officers (President-Elect, Treasurer, and two Councillors). Nominations need to be sent, E-mailed or faxed to Steve Segal:

Steven S. Segal, Ph.D.
Chair, Microcirculatory Society Nominating Committee
Department of Cellular & Molecular Physiology
The John B. Pierce Laboratory
290 Congress Ave.
Yale University School of Medicine
New Haven, CT 06519
Office Phone = 203-562-9901 x253
Lab Phone = 203-562-9901 x279
FAX = 203-624-4950
E-Mail: sssegal@jb.pierce.org

The MCS Anniversary in 2004. Our plans for the 50th Anniversary Celebration of the Society are proceeding well. We have a commitment from a number of members to make a contribution to the celebration. Please reserve Friday, April 16, when we will gather during the day in the Natcher Center of the National Institutes of Health in Bethesda followed by an evening celebration at the New Academy of Sciences Building in Washington D.C. I will report to you about these plans in greater detail in the near future.

This celebration is planned in addition to the regular annual meeting of the Society [April 17-18] in conjunction with Experimental Biology 2004.

Thank you and best wishes.

VERY IMPORTANT Nominations for New Officers

It is once again time to submit nominations for next year's officers. We will be electing a President-Elect, a Treasurer, and two Executive Council Members. A nomination form is provided on page 4 of this newsletter and on the web site. Please consider these nominations seriously as the Society depends on strong leadership. Mail, E-mail or fax your nominations to Steven Segal, Chairman of the Nominating Committee, as soon as possible but not later than November 21, 2003.

***We need your involvement in choosing
our Society's leaders. You can make a
difference!***

Welcome to New MCS Members!

Brant E. Isakson, Ph.D.
Molecular Physiology and Biological Physics
University of Virginia College of Medicine

Scott D. Appleton, Ph.D.
Department of Physiology
Tulane University School of Medicine

Christopher Quick, Ph.D.
Dept of Veterinary Physiology/Pharmacology
Texas A&M University

Robert Dorman
Dept. of Pharmacology and Toxicology
University of Arkansas for Medical Sciences

2003 Microcirculatory Society Nominating Ballot

DEADLINE FOR RECEIPT: NOVEMBER 21, 2003
Don't put it off...Do it today!

PLEASE PROVIDE NAME/CONTACT INFORMATION OF INDIVIDUAL NOMINATED

President-Elect: _____

Treasurer: _____

Councilors: (1) _____

(2) _____

Please mail, FAX or e-mail nominations to:

Steven S. Segal, Ph.D.

Chair, Nominating Committee, The Microcirculatory Society

The John B. Pierce Laboratory

Yale University School of Medicine

290 Congress Avenue

New Haven, Connecticut 06519

fax: 203-624-4950

E-mail: sssegal@jbpirece.org



Annual Microcirculatory Society Awards

Final Call for Nominations

DEADLINE EXTENDED: November 7, 2003

This is your last chance to nominate individuals for these awards!

Address for All Award Correspondence:

Leslie Ritter, Ph.D.

Chair, MCS Awards Committee

College of Nursing and Dept. of Neurology

University of Arizona

P.O. Box 245023, 1501 N. Campbell Ave.

Tucson, AZ 85724-5023

Phone: 520-626-7434

FAX: 520-626-2111

Email: lritter@nursing.arizona.edu

Christian Crone Travel Award for Outstanding Young Investigators

This relatively new award is given to reward meritorious research in the field of microcirculation by an individual residing outside of the United States and Canada and to support the recipient's visits to laboratories within North America. It is intended for a researcher who has received a Ph.D. or completed a first M.D. residency within 12 years of the deadline. A letter of nomination describing how the award will benefit the nominee's career and advance knowledge of microcirculation, a brief tentative itinerary including the laboratories to be visited and a current CV should be submitted to the Chairman of the Awards committee. The award consists of a certificate and \$2000 to help defray travel costs associated with the trip. The recipient is expected to present a brief report of



Christian Crone
(1926 - 1990)

Benjamin Zweifach Student Award

Established in 1998, this award recognizes the outstanding mentoring efforts of Dr. Benjamin W. Zweifach. It is designed to encourage participation in the Microcirculatory Society meeting (held in conjunction with Experimental Biology 2003) by young scientists in training. Five awards, each of \$500 and a certificate, will be made. To qualify for this award, a student must be a first author on an abstract submitted to Experimental Biology 2004 and designated for presentation in one of the Microcirculatory Society sessions. Individuals may only receive this award one time, and need not be a member of the Microcirculatory Society. To apply for this award, students should forward a letter of support from their mentor to Chairman of the Awards committee. The award will be announced before the meeting and presented at the Microcirculatory Society Banquet.



Benjamin W. Zweifach
1911-1997

Meeting Information

IMPORTANT INFORMATION PERTAINING TO THE MICROCIRCULATORY SOCIETY 2004 ANNUAL MEETING

(From William Jackson – Program Committee Chair)

The following information is provided for planning purposes in preparation for the MCS Annual Meeting to be held in Washington, D.C. April 16-21, 2004.

To celebrate the 50th Anniversary of the founding of the Microcirculatory Society, Inc., we have organized a special symposium to be held in the Natcher Auditorium at the NIH on Friday, April 16, 2004, one day prior to Experimental Biology 2004 (see below for more information). This symposium will highlight the state of the art in microvascular research and should be of interest not only to members of the Society, but other investigators as well. We will then once again be meeting as a Guest Society of the APS within the structure of Experimental Biology 2004. The meeting will officially start on the afternoon of Saturday, April 17, 2004 with the MCS President's Symposium (3:15-5:15 PM) (see description below). The Landis Award Lecture will be presented from 10:30 - 11:30 AM on Sunday, April 18, 2004 (see below for more information).

****REMEMBER: The deadline for Abstract Submission is November 12, 2003.****

As a guest society of APS, the MCS abstract topic category list is included with that of APS. **Refer to Page 28 of the EB 2004 Call for Abstracts for the Microcirculatory Society Poster Categories** (at the end of the Physiology section). Do not choose from the other APS categories or your abstract may be programmed into later EB time slots rather than within the MCS poster sessions.

The MCS Abstract Categories to be offered are:

- 1210-APS Angiogenesis/microvascular remodeling
- 1211-APS Atherosclerosis/thrombosis
- 1212-APS Cell-cell communication and conducted responses
- 1213-APS Clinical microcirculation
- 1214-APS Flow regulation; oxygen delivery
- 1215-APS Instrumentation in microcirculatory research
- 1216-APS Ischemia/reperfusion
- 1217-APS Microvascular cell and molecular biology
- 1218-APS Microvascular cell interactions
- 1219-APS Microvascular mechanics and hemodynamics
- 1220-APS Microvascular networks
- 1221-APS Microvascular pathophysiology
- 1222-APS Microvascular permeability/exchange
- 1223-APS Microvascular pharmacology/vascular control

Friday, April 16, 2004

MICROCIRCUATORY SOCIETY 50th ANNIVERSARY SYMPOSIUM
Natcher Conference Center, National Institutes of Health, Bethesda, MD

8:00 AM - 9:00 AM

Registration

9:00 AM - 12 AM

Session I: Established Microcirculatory Research Topics. Where Do They Stand Today?

Microvascular Rheology and Hemodynamics

Herb Lipowsky, Department of Bioengineering, The Pennsylvania State University

Microvascular Solute and Water Transport

Fitz-Roy Curry, Department of Human Physiology, University of California, Davis

Microvascular Adaptation and Remodeling

Geert Schmid Schonbein, Department of Bioengineering, University of California, San Diego

Regulation of Blood Flow in the Microcirculation

Steven Segal, Department of Cellular & Molecular Physiology, Yale University School of Medicine

Angiogenesis and Vasculogenesis

Thomas Skalak, School of Engineering & Applied Science & School of Medicine, Univ. of Virginia

Oxygen Transport and Exchange

Roland Pittman, Department of Physiology, Virginia Commonwealth University

1:30 PM - 4:00 PM

Session II: Emerging Microcirculatory Research Topics

Lympathic Biology

David Zawieja, Department of Medical Physiology, The Texas A&M University Health Science Ctr

Microvascular Endothelial Cell Biology

F. William Luscinskas, Department of Pathology, Brigham and Womens Hospital

Cell Trafficking in the Microcirculation

Paul Kubes, Department of Physiology and Biophysics, University of Calgary Health Sciences Ctr

Integrins and Regulation of the Microcirculation

Gerald Meininger, Dept. of Medical Physiology, Texas A&M University System Health Science Ctr

Microvascular Ion Channel Biology

William Jackson, Department of Biological Science, Western Michigan University

Molecular Genetics in Microvascular Research

Mary Gerritsen, Department of Vascular Biology, Millennium Pharmaceuticals, Inc.

The symposium will be followed by a Banquet/Gala Celebration to be held at the new National Academy of Sciences Building, Washington, D.C.

Tentative Schedule:

7 PM Reception and Historical Poster Viewing

8 PM Dinner

Dr. Gabor Kaley: The History of the Microcirculatory Society

Dr. Robert McCuskey: Historical Microvascular Recordings

10 PM Cake Cutting, Past Presidents of the Microcirculatory Society

Saturday, April 17, 2004

MCS PRESIDENT'S SYMPOSIUM: 3:15 - 5:15 PM

Convention Center, Room 146C

Molecular Genetic Approaches to Microvascular Research

Convergence of Molecular Genetics and Proteomics in the Microcirculation

Andrew Greene, Biotechnology and Bioengineering Center, Medical College of Wisconsin

Landscaping Heme Oxygenase-1-Mediated Biological Actions: Multiplicity Revealed by

Transcriptome Analyses

Makoto Suematsu and Misato Kashiba, Keio University School of Medicine

The Use of Knockout Mice to Dissect Molecular Mechanisms in the Microcirculation

Klaus Ley, Biomedical Engineering, Molecular Physiol. and Biological Physics, Univ. of Virginia

Spacial Approaches to Endothelial Gene Expression using Amplification Techniques Applicable
To the Microcirculation

Peter Davies, Institute of Medical Engineering, University of Pennsylvania

Sunday, April 18, 2004

MICROCIRCULATORY SOCIETY LANDIS AWARD LECTURE: 10:30 - 11:30 AM

Convention Center, Room 146C

Monday, April 19, 2004

MCS YOUNG INVESTIGATORS SYMPOSIUM: 8:00 - 10:00 AM

Convention Center, Room 140B

Regulation of Microvascular Tone by Endothelial Ion Channels and Gap Junctions

Organized by Donald G. Welsh, University of Calgary (Speakers: TBA)

The XIIIth International Vascular Biology Meeting

June 1-5, 2004
Toronto, Canada
The Westin Harbour Castle Hotel

We invite you, your trainees and your colleagues to submit abstracts for IVBM 2004. The abstract deadline and trainee travel award application deadline of November 14, 2003 is fast approaching. Many opportunities for trainee travel awards are available.

You are encouraged to submit on time as we cannot guarantee inclusion in the published abstract book (to be issued as a supplement to Volume 13, Issue 3, 2004 of *Cardiovascular Pathology*, Elsevier, and published around May 1, 2004) if an abstract is submitted after the abstract deadline.

To submit an abstract(s), and for details on trainee travel awards, please go to the Meeting website at www.ivbm2004.ca. We encourage you to visit the website regularly for Meeting updates. Please do not hesitate in contacting the Meeting Secretariat at ce.med@utoronto.ca or 1.888.512.8173 (N. America) or 416.978.2719 for assistance.

Sincerely,
Avrum Gotlieb
Chair, Scientific Organizing Committee



William J. Whalen, Ph.D.
(1915 to 2003)
Memorial

On August 7, 2003, William J. Whalen, known to his friends as Bill, died peacefully at home in Santa Fe, New Mexico.

For many years Bill had been a member of the Hemlock Society, which believes, as did Bill, that every person has the right to determine when they should pass to their final resting place. It was his hope that in the future, self-deliverance will be the accepted way to leave the world. He did not want to be left in a vegetative state nor did he want to become a burden to family and society. Bill was a man of his word and always led by example.

Bill was a great friend, a wonderful teacher and mentor in many special ways. He understood the Zen of teaching. He was a sweet, kind man. Truly a man with soul.

Bill was born July 9, 1915 in Ford Dodge, Iowa, the son of William and Blanche (Tremaine) Whalen. His childhood was typical of midwestern society at that time. Growing up, he loved shooting marbles. In high school, his interests included athletics and theater. He entered college as a pre-medical student at the University of Iowa and had the prospect of a football scholarship with the dream of playing quarterback for "The Hawkeyes". However, enthusiasm for studies was lacking, and the realities of "The Great Depression" interrupted his dream. Consequently, he moved to Delano, California, where he owned and operated a bowling alley. His time as proprietor of the bowling alley was cut short as World War II began and intensified. Most of his close friends and customers were young, Japanese-Americans who were tragically and unjustly interred in camps.

Although he was a life-long pacifist, it was the unjust treatment of his Japanese-American friends, among other events at that time, that caused him to volunteer for the Army Air Force in 1941. His motive was always to end the tragedies of war, not start them.

He was a pilot and a hero during World War II where he earned the distinction of being a member of "The Greatest Generation", having won the Air Medal and the Distinguished Flying Cross with oak leaf clusters. He flew both B-25 and B-17 aircraft and completed 25 combat missions as a B-17 pilot in Europe with the rank of Captain.

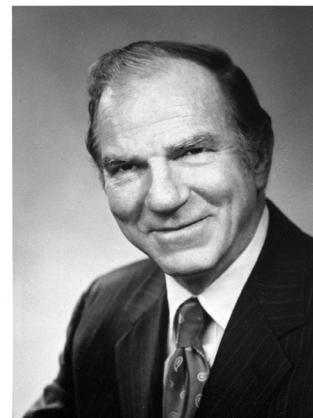
In 1951, Bill received his Ph.D. in Physiology from Stanford University. He remained at Stanford as an Instructor, then moved to UCLA as an Assistant Professor, moved from there to The University of Iowa as Full Professor, and subsequently accepted a joint appointment in 1967 at Case Western Reserve and as Director of Research at St. Vincent Charity Hospital in Cleveland, Ohio. Upon retirement, he moved with his wife, Ruth Kortkamp, to Santa Fe, New Mexico.

In addition to being a most imaginative scientist, Bill loved fly fishing, played a mean game of golf, was a serious bowler, understood the game of craps, was a good dancer, had a wonderful sense of humor, and loved to play bridge.

Bill is best remembered as the inventor of the "Whalen Oxygen Microelectrode," the first micro-oxygen electrode that was simple to make, that was consistently reliable, and actually worked to generate reproducible data about oxygen tension and oxygen distribution in living tissue.

What is least known about Bill's research is his early work with Ronald Grant at Stanford from 1950-56. Bill did a series of brilliantly conceived studies characterizing the mechanisms of "pyrogen fever" and the role of an "endogenous pyrogen" that mediated LPS-induced hyperexia in rabbits. Because of the limits of technology at the time, Bill and Dr. Grant were unable to identify the chemical features of this serum factor. Today, we know it as Interleukin I.

William J. Whalen was a most human and loveable man. He will be missed, but he will always occupy a place in the hearts of those who had the privilege of knowing him. And for those who flew with him, his mission was always to bring everyone home safely if he could. His only regret was that: "I lost my radioman".



Microcirculatory Society Committees 2002-2003

Committee Members	Term	Telephone No.	Committee Members	Term	Telephone No.
<u>Executive Council</u>					
Robert Hester	(04)	601-984-1816	Virginia Huxley	(07)	573-882-8069
Matthew Boegehold	(04)	304-293-5240	Gerald Meininger	(06)	979-845-7491
H. Glenn Bohlen	(05)	317-274-8770	Fitz-Roy Curry	(05)	530-752-1973
Ronald Korthuis	(05)	318-675-6028	Roland Pittman	(04)	804-828-9545
Paul Kubes	(06)	403-220-8558			
Mary (Molly) Frame	(06)	631-444-2320			
<u>Awards</u>					
Fay Hansen-Smith	(04)	248-370-3574	Geert W.		
Andy Greene	(04)	414-456-5532	Schmid-Schonbein (C)	(04)	858-534-3852
Leslie Ritter (C)	(05)	520-626-7434	Cindy Meininger	(05)	254-742-7037
Joseph Benoit	(05)	701-777-4388	Robert Gore	(04)	520-626-6569
Terrence (Terry) Sweeney	(06)	570-941-7623	Bruce Klitzman (ESM)	(04)	919-684-6686
Russell Prewitt (VC)	(06)	757-446-5105	Makoto Suematsu	(06)	81-3-5363-3753
			Paul Kubes	(06)	403-220-8558
			Virginia Huxley (IUPS)	(06)	573-882-8069
<u>Development</u>					
Matthew Boegehold	(04)	304-293-5240	<u>Membership</u>		
Jeff Falcone (C)	(04)	502-852-5384	Mary (Molly) Frame (C)	(04)	716-275-2482
Mike Doyle	(04)	303-541-3453	Judy Muller-Delp	(04)	979-458-3502
Miuchelle Mazzoni	(06)	858-410-5189	Travis Hein	(05)	979-845-0589
Mary Gerritsen	(06)	650-244-6854	Chris Ellis	(05)	519-661-3100
Jay Tuttle	(06)	760-510-1404	Dick Slaaf	(06)	31-43-3881657/59
			Dave Zawieja	(06)	979-845-7465
<u>Finance</u>					
Ann L. Baldwin (C)	(04)	520-626-6264	<u>Nominating</u>		
David Sims	(05)	902-566-0812	Norman Harris	(04)	318-675-4219
Tim Secomb	(06)	520-626-4513	Steven Segal (C)	(05)	203-562-9901 ext. 253
Roger Adamson	(06)	530-752-2180	Deborah Damon	(06)	802-656-2184
			Thomas Skalak	(06)	434-924-0270
<u>Historical</u>					
Gabor Kaley (C)	(03)	914-594-4089	<u>Program</u>		
Paul Johnson	(04)	619-534-5686	Rolando Rumbaut	(04)	573-882-2991
Robert Gore	(05)	520-626-6569	Coral Murrant	(04)	519-824-4120
Robert McCuskey	(06)	520-626-6084			x6173
Herb Lipowsky	(06)	814-865-1407	William Jackson (C)	(05)	616-387-5631
Ronald Tuma	(06)	215-707-3248	Donald Welsh	(05)	403-210-3819
			Walter Duran	(06)	973-972-4372
			David Bates	(06)	44-117-928-9818
<u>Long-Range Planning</u>					
Paul McDonagh (C)	(13)	520-626-2329	<u>Publication</u>		
Ingrid Sarelius	(12)	716-275-7729	Robert Gore	(04)	520-626-6569
Walter Duran	(11)	973-972-4372	Virginia Huxley (C)	(04)	573-882-8069
Ronald Tuma	(10)	215-707-3248	Neil Granger	(06)	318-675-6011
Bruce Klitzman	(09)	919-684-6686	Klaus Ley (VC)	(06)	434-924-1722
Julian Lombard	(08)	414-456-8530	Fitz-Roy Curry	(06)	530-754-9380