

The Microcirculatory Society, Inc.

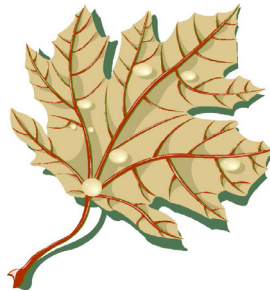
Newsletter

Volume 30, Number 2

Fall 2002

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Officers

President:	Paul F. McDonagh pmcdonag@u.arizona.edu
President-elect:	G.W. Schmid-Schönbein gwss@bioeng.ucsd.edu
Secretary:	Cynthia J. Meininger cjm@tamu.edu
Treasurer:	Ann Baldwin abaldwin@u.arizona.edu
Web Site:	http://microcirc.org

President's Message

Paul F. McDonagh

Thanks. As the leaves turn in the dense woods near my home in Tucson, I was reminded that it's time for the Fall installment of the President's Message. First of all, I'd like to thank the members of the society that have agreed to serve on the various MCS committees. I know that you are all very busy in your own pursuits and I appreciate your willingness to serve the MCS. It is through a shared commitment to our overall purpose and well-being, that our society runs best and continues to thrive.

Annual Meeting. The deadline for abstracts for our Annual Meeting is November 13th. Once again, we will be meeting as a Guest Society of the American Physiological Society (APS). The APS Physiology In Focus theme this year is "Physiological Implications of Oxidative and Nitrosative Stress." I encourage you to go to: www.faseb.org/meetings/eb2003 and then go to APS. Please look carefully at the APS Topic Categories. **There is a listing of Topic Categories specifically for the MCS.** The MCS category codes are: 1218 APS -

1227 APS. If you wish your poster to be programmed with MCS, you must use one of these codes. The process for on-line submission of abstracts is well described and allows for revision.

This year, our meeting will start on Friday afternoon, April 11, 2003. An update of our meeting plans can be found later in this newsletter and on the MCS website. The President's Symposium "Mechanisms of Microvascular Dysfunction" is

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scheduled on Friday afternoon, for 3:15-5:15 PM, following a Workshop, sponsored by APS, on Intravital Microscopy from 1-3 PM. The MCS Poster Sessions will be on Saturday and Sunday. The Landis Lecture is scheduled from 2-3 PM on Saturday afternoon, followed by the MCS Young Investigators Symposium from 3:15-5:15 PM. The time and place of our Council Meeting, the Membership Meeting and our Banquet are in the planning stages. We are making our best effort to avoid conflicts with other major dinners.

Nominations for MCS Officers and Awards. In this newsletter are calls for nominations for MCS Officers and Awards. Nominations for MCS Officers should be sent to Steve Segal and the nominations for awards to Bill Chilian. Please note also that a form for the Zweifach Student Travel Award can be found in the EB 2003 Preliminary Program on page 23. We have increased the number of travel awards to five this year and we encourage students to apply.

International Union of Physiological Scientists (IUPS) Meeting in 2005. Our society is helping to host the IUPS meeting in the U.S. for the first time since 1968. In the near future, you will be receiving a letter from me asking for your participation and support of this meeting, scheduled to take place in San Diego in 2005. The primary use of your contribution will be to bring young scientists, both from the U.S. and foreign countries, to the Congress, so that they will have an opportunity to share their findings, learn state-of the art developments in the physiological sciences and meet other scientists from around the world. Please be generous.

World Congress for Microcirculation. We have received two proposals to host the upcoming World Congress in the U.S. in 2007. We are in the initial phase of evaluating these proposals. We plan to announce the site selected at our Annual Meeting in San Diego. Stay tuned.

That's all for now. Periodically check the MCS website for updates on scheduling for the Annual Meeting and please be sure to send in your nominations for Officers and Awards. Take care.

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 Secretary, and two Executive Council Members. A nomination form is provided in 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 15, 2002.

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

Welcome to New MCS Members!

Regular Members:

Alireza Minagar
Louisiana State University
Health Science Center
Shreveport, Louisiana

2002 Microcirculatory Society Nominating Ballot

DEADLINE FOR RECEIPT: NOVEMBER 15, 2002

Don't put it off...Do it today!

PLEASE PROVIDE NAME AND ADDRESS OF INDIVIDUAL NOMINATED

President-Elect: _____

Secretary: _____

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: steven.segal@yale.edu

Meeting Information

IMPORTANT INFORMATION PERTAINING TO THE MICROCIRCULATORY SOCIETY 2003 ANNUAL MEETING

(From William Jackson – Program Committee Chair)

The Microcirculatory Society Annual Meeting will be held in San Diego, California, April 11-13, 2003. As approved by the MCS Council and by the general membership at the Business Meeting, the MCS will meet as a guest society of APS, within the structure of Experimental Biology 2003. As was done last year, the poster session will be integrated with the EB 2003 poster sessions, although MCS posters will be presented together. MCS Topic Categories **MUST** be chosen to include your poster in the MCS section!

****REMEMBER: The deadline for Abstract Submission is November 13, 2002.****

As a guest society of APS, the MCS abstract topic category list is included with that of APS. **Refer to Page 79 of the EB 2003 Preliminary Program 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:

1218-APS	Angiogenesis/microvascular remodeling
1219-APS	Atherosclerosis/thrombosis and clinical microcirculation
1220-APS	Flow regulation; oxygen delivery
1221-APS	Instrumentation in microcirculatory research
1222-APS	Microvascular cell and molecular biology
1223-APS	Microvascular networks
1224-APS	Microvascular mechanics and hemodynamics
1225-APS	Microvascular pathophysiology
1226-APS	Microvascular permeability/exchange
1227-APS	Microvascular pharmacology/vascular control

The MCS will have two symposia: The MCS President's Symposium and the MCS Young Investigators Symposium. In addition, we have our regular plenary session to present the Landis Award Lecture.

MICROCIRCULATORY SOCIETY PRESIDENT'S SYMPOSIUM: MECHANISMS OF MICROVASCULAR DYSFUNCTION IN DIABETES

FRIDAY 3:15-5:15 Room 8

Chairs: Paul F. McDonagh
University of Arizona

Leslie S. Ritter
University of Arizona

Participants:

Leslie S. Ritter, University of Arizona
“Reperfusion Injury in the Diabetic Microcirculation”

H. Glenn Bohlen, Indiana University School of Medicine
“Obesity Predisposes Hyperglycemic Injury of In-Vivo Endothelial Cells”

George L. King, Joslin Diabetes Center, Harvard Medical School
“Protein Kinase C and Other Kinases: Their Roles in Causing Microvascular Dysfunctions and Pathologies of Diabetes”

John E. Tooke, Peninsula Medical School, Plymouth, England
“Microvascular Function in Human Diabetes and Pre-Diabetes”

Diabetes is increasing worldwide at an alarming rate. There are many serious complications associated with this disease. Many, including ischemic heart disease, stroke, peripheral vascular disease, renal failure and retinopathy, are related to microvascular dysfunction. Despite the importance of gaining a clear understanding of the pathobiology underlying the microvascular changes that occur in diabetes, the mechanisms are not clear. The aims of this symposium are to present the functional alterations that occur in the diabetic microcirculation and what is known about the mechanisms underlying these dysfunctions. Molecular, cellular, integrative and clinical perspectives of the diabetic microcirculation will be presented. Dr. Ritter will present an overview of microvascular failure in diabetes with attention to blood-blood vessel interactions under ischemic conditions in the coronary and cerebral microcirculations. Dr. Bohlen's presentation will emphasize the effects of hyperglycemia and diabetes on endothelial cell function and microvascular blood flow. Dr. King will present alterations that occur in kinase signaling pathways, particularly PKC in diabetic microvessels. Dr. Tooke will discuss microvascular dysfunction in human diabetes and pre-diabetes, drawing on their more recent findings regarding microvascular hemodynamics in insulin resistant states. This comprehensive symposium will be of interest to experimental biologists, translational researchers and clinicians with an interest in the cardiovascular complications of diabetes.

MICROCIRCULATORY SOCIETY LANDIS AWARD LECTURE

SATURDAY 2:00-3:00 PM ROOM 8
Speaker: TBA

MICROCIRCULATORY SOCIETY YOUNG INVESTIGATORS SYMPOSIUM

SUNDAY 3:15-5:15 PM Room 10

Chairs: Jefferson C. Frisbee
 Medical College of Wisconsin

 David W. Stepp
 Medical College of Georgia

The 3rd Annual Microcirculatory Society Young Investigator Symposium will spotlight outstanding young investigators making the transition from a sponsored position to an independent scientist. For this year's symposium, the invited speakers and their tentative seminar titles are:

1. Donald G. Welsh, Ph.D., University of Calgary. "Defining the nature of gap junctional communication in the resistance vasculature."
2. Daniel A. Beard, Ph.D., University of Washington. "Myocardial oxygenation in isolated hearts predicted by an anatomically reasonable microvascular transport model."
3. Johnathan D. Tune, Ph.D., University of North Texas. "Mechanisms of coronary blood flow control in experimental diabetes mellitus."
4. Cristine Heaps, Ph.D., University of Missouri. "Adenosine activation of voltage-dependent K⁺ channels in coronary arterioles."
5. Richard J. Price, Ph.D., University of Virginia. "Microvascular remodeling: network patterning and stimulation by contrast ultrasound."

Other Programs of Interest to MCS Members:

FRONTIERS OF INTRAVITAL MICROSCOPY: CROSSROADS OF PHYSIOLOGY AND PATHOLOGY (WORKSHOP)

FRIDAY 1:00-3:00 Room 5

Chair: M.S. Goligorsky

GENOMICS OF ANGIOGENESIS AND THE MICROCIRCULATION (PG SYMPOSIUM)

SATURDAY 8:00-10:00 AM Room 6C

Chair: James B. Hoying

Annual Microcirculatory Society Awards

Call for Nominations

DEADLINE: November 15, 2002

REMEMBER: SOONER IS BETTER!

Address for All Award Correspondence:

William Chilian, Ph.D.

Chair, MCS Awards Committee

Professor and Head, Department of Physiology

LSU Health Sciences Center, 1901 Perdido Street

New Orleans, LA 70112

Fax: 504-568-6158 email: chilian@lsuhsc.edu

Eugene M. Landis Research Award

This annual award was established in 1969 to recognize an outstanding investigator in the field of Microcirculation who is in residence in the United States or Canada. The awardee is expected to be an active investigator who has published and continues to provide meritorious research in the field of Microcirculation. The award consists of a certificate and \$2000 to be used at the discretion of the awardee. To nominate an individual for this award, a letter of nomination describing the nominee's most important work, a current CV, including a list of the nominee's 10 most significant publications from the last 10 years, should be forwarded to the Chairman of the Awards Committee prior to November 15, 2002. The award will be presented at the annual meeting and the awardee will be invited to present a brief summary of his or her professional and research career activities.



**Eugene M.
Landis**
(1901 - 1987)

Microcirculatory Society Travel Award for Outstanding Young Investigators

This annual award is given to reward meritorious research in the field of microcirculation by supporting the recipient's visits to laboratories abroad. It is intended for a researcher who is a resident of the United States or Canada and 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 prior to November 15, 2002. 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 their trip to the MCS membership at the annual banquet.



August Krogh
(1874 - 1949)
Nobel prize in
Physiology and
Medicine 1920

August Krogh, Young Investigator Award

(Sponsored by Fine Science Tools, Inc.)

This annual award is intended for an individual in the early stages of a research career. The purpose of the award is to encourage excellence in microcirculatory research by new, young investigators. Eligibility for this award is limited to

graduate students and recent graduates (less than 3 years after having received a Ph.D. or, for M.D.s, 3 years following completion of a first residency). The award consists of a certificate and \$500 to be used at the discretion of the awardee. The requirements include submission of a brief manuscript which describes research to be presented at the annual MCS meeting and a letter of nomination from a member of the Society. These materials should be forwarded to the Chairman of the Awards Committee prior to November 15, 2002.

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 prior to November 15th of the year prior to the presentation of the award. 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 their trip to the MCS membership at the annual banquet.



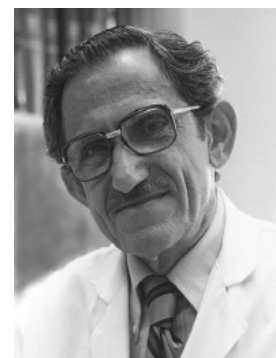
Christian Crone
(1926 - 1990)

Microcirculatory Society Award for Excellence in Lymphatic Research

This relatively new award was made possible by a generous contribution of the former North American Society of Lymphology. The award is designed to recognize meritorious research of the lymph, lymphatics or interstitium by a young investigator within 10 years of obtaining a Ph.D., M.D. or a *bona fide* equivalent degree. A letter of nomination describing their research efforts, a manuscript suitable for submission to Microcirculation and a current CV should be submitted to the Chairman of the Awards Committee prior to November 15th of the year prior to the presentation of the award. The manuscript of the awardee will need to be submitted to the Society journal Microcirculation. The award, to be given at the Annual Meeting of the Microcirculatory Society, consists of a certificate and \$500 to be used at the discretion of the awardee.

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 2003 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 William Chilian, Chairman of the Awards Committee, prior to November 15, 2002. The award will be announced before the meeting and presented at the Microcirculatory Society Banquet.



Benjamin W. Zweifach
1911-1997

Microcirculatory Society Committees 2002-2003

<i>Committee Members</i>	<i>Term</i>	<i>Telephone No.</i>	<i>Committee Members</i>	<i>Term</i>	<i>Telephone No.</i>
<u>Executive Council</u>			<u>Membership</u>		
Steven Segal	(03)	203-562-9901 x253	Richard Price	(03)	804-924-0020
Klaus Ley	(03)	804-924-1722	Frederick Haselton	(03)	615-322-6622
Robert Hester	(04)	601-984-1816	Mary (Molly) Frame (C)	(04)	716-275-2482
Matthew Boegehold	(04)	304-293-5240	Judy Muller-Delp	(04)	979-458-3502
H. Glenn Bohlen	(05)	317-274-8770	Travis Hein	(05)	979-845-0589
Ronald Korthuis	(05)	318-675-6028	Chris Ellis	(05)	519-661-3100
<u>Awards</u>			<u>Nominating</u>		
William Chilian (C)	(03)	414-456-4975	Mauricio Boric	(03)	011-56-2-686-2865
Fay Hansen-Smith	(04)	248-370-3574	Brajesh K. Lal	(03)	973-972-2761
Andy Greene	(04)	414-456-5532	Norman Harris	(04)	318-675-4219
Leslie Ritter	(05)	520-626-7434	Steven Segal (C)	(05)	203-562-9901 ext. 253
Joseph Benoit	(05)	701-777-4388	<u>Long-Range Planning</u>		
<u>Finance</u>			Ingrid Sarelius (C)	(12)	716-275-7729
Matthew Boegehold	(03)	304-293-5240	Walter Duran	(11)	973-972-4372
Steven Flaim	(03)	408-654-5830 x136	Ronald Tuma	(10)	215-707-3248
William Jackson	(04)	616-387-5631	Bruce Klitzman	(09)	919-684-6686
Ann L. Baldwin (C)	(04)	520-626-6264	Julian Lombard	(08)	414-456-8530
David Sims	(05)	902-566-0812	Virginia Huxley	(07)	573-882-8069
<u>Development</u>			Gerald Meininger	(06)	979-845-7491
Michael Minnicozzi	(03)	908-740-7229	Fitz-Roy Curry	(05)	530-752-1973
Gary Fletcher	(03)	304-293-5240	Roland Pittman	(04)	804-828-9545
Matthew Boegehold	(04)	304-293-5240	Herbert Lipowsky	(03)	814-865-1407
Jeff Falcone (C)	(04)	502-852-5384	<u>Program</u>		
Mike Doyle	(04)	303-541-3453	Paul McDonagh (VC)	(03)	520-626-2329
<u>Historical</u>			Samina Kanwar	(03)	713-770-4358
Eugene M. Renkin (C)	(03)	916-752-1241	Ulrich H von Adrian	(03)	617-278-3130
Patrick Harris	(03)	502-852-6251	Rolando Rumbaut	(04)	573-882-2991
Christopher Ellis	(03)	519-661-3100	Coral Murrant	(04)	519-824-4120
Gabor Kaley	(03)	914-594-4089			x6173
Paul Johnson	(04)	619-534-5686	William Jackson (C)	(05)	616-387-5631
<u>Liaison</u>			Donald Welsh	(05)	403-210-3819
Paul McDonagh (C)	(02)	520-626-2329	<u>Publication</u>		
Ingrid Sarelius	(03)	716-275-7729	Roland Pittman	(03)	804-828-9545
Erik Svensjö	(03)	55-11-853 78 87	Geert Schmid-		
Robert Gore	(04)	520-626-6569	Schöenbein	(03)	858-534-3852
Bruce Klitzman	(04)	919-684-6686	Robert W. Gore (C)	(04)	520-626-6569
			Virginia Huxley	(04)	573-882-8069