

American Physiological Society

Spring 2003

Cardiovascular Section Newsletter

D. Neil Granger, PhD, editor

Cardiovascular Section Dinner

Monday April 14th at 7:00 pm, US Grant Hotel

Choice of entrees: 1) Stuffed Chicken Florentine & Salmon Roulade
2) Chargrilled beef medallion & Sauteed Jumbo Prawns

Order tickets now! Send check for \$35, made out to APS to:

D. Neil Granger
Dept Molecular & Cellular Physiology
LSU Health Sciences Center
1501 Kings Highway
Shreveport, Louisiana 71130-3932

Payment for tickets must be received by April 2, 2003

Program EB 2004 Suggestions (April 17-21, 2004 Washington DC)

The deadline for proposals for symposia and featured topics sponsored by the CV Section has been extended to **April 1, 2003**. Proposals for Symposia should include 1) title of symposium, 2) abstract, 3) speakers and their topics, and 4) name & address of organizer(s).

Suggestions for Featured topics should include: 1) title, 2) 1-3 sentence abstract, and 3) list of anchor speakers.

Send proposals to: David W. Busija, PhD
Dept Physiology & Pharmacology
Wake Forest University School of Medicine
Medical Center Boulevard
Winston-Salem, NC 27157-1803
E-mail: dbusija@wfubmc.edu

Note from CV Section Chair, William M. Chilian, Ph.D:

I wish to encourage the members of the CV Section to become more involved in the Sectional and APS activities. In the on-going APS elections for Council and President-Elect, William Talman from the University of Iowa and Neil Granger from LSU health Sciences Center—Shreveport are two candidates that I would encourage you to support. Dr. Talman has a secondary affiliation with the CV Section and is running for Council. Dr. Granger has his primary APS affiliation with the CV Section, and has a long history of involvement with the CV Section and APS. Both candidates would be strong advocates for our Section, and if you have not voted, please do so.

I would also like to reinforce the call for symposia and featured topics proposals for the 2004 EB meeting. We all should work vigorously to improve the quality of the EB meeting, and to do so, we need to have an exciting scientific program. I encourage you to submit proposals for consideration, and also encourage you to work with other sections to submit intersectional proposals.

I also encourage you to attend the annual CV Section banquet. We have some new changes to our banquet this year. We will have a special lecture by Jay Cohn, M.D. who will deliver a lecture on translational research in the area of heart failure. Dr. Cohn is an esteemed clinical scientist who has a long-standing interest in basic and clinical research. We also have been able to obtain some extra funding for the banquet (thanks largely to Frank Spinale M.D., Ph.D. of the Medical University of South Carolina) that will enable us to offer FREE tickets to 20 (and perhaps more) students. So please bring your students to the banquet, but notify Neil Granger or I that you need to reserve some free tickets for your students.

Berne Lectureship: Eric Feigl, MD

The Berne award honors one of the most distinguished members of the Cardiovascular Section, Robert M. Berne. The award is presented to a scientist who has made outstanding prior contributions to cardiovascular research, and whose current research is particularly interesting to the membership of the CV Section.

The 2004 Berne Lecture will be presented by Eric Feigl, Professor of Physiology & Biophysics at the University of Washington Medical School. Dr. Feigl's lecture will focus on the origin and development of the adenosine hypothesis and recent experimental results. The hypothesis and its offshoots have been a rich source of ideas concerning coronary physiology and pathophysiology.

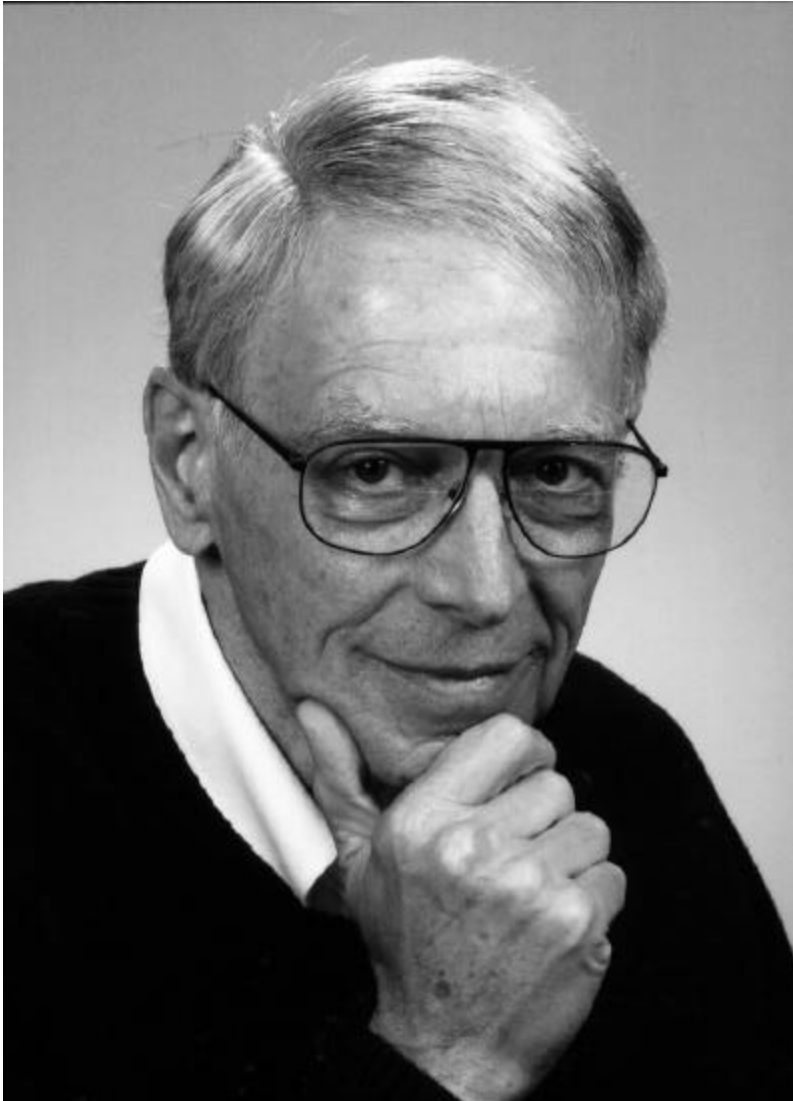
Eric Feigl grew up in Minneapolis, MN, the son of the Logical Positivist Philosopher Herbert Feigl who was a professor at the University of Minnesota. Dr. Feigl earned his B.S. and M.D. degrees at the University of Minnesota and interned at Philadelphia General Hospital. His first

postdoctoral fellowship was at the University of Pennsylvania studying vascular mechanics with Dr. Lysle Peterson. This was followed by a year in Gothenburg, Sweden with Professor Bjorn Folkow, his most important teacher. Dr. Feigl served his "military service" as an officer in the U.S. Public Health Service and Research Associate at the National Heart Institute in Bethesda MD investigating cardiac mechanics with Dr. Donald Fry. Following the stint at NIH, Dr. Feigl joined the Physiology Department of the

University of Pennsylvania as an Assistant Professor where he began independent research on coronary physiology. After five years in Philadelphia he moved to the Physiology and Biophysics Department at the University of Washington in Seattle, WA where he rose through the ranks to his present position as Professor.

Dr. Feigl's laboratory is best known for research on the parasympathetic and sympathetic reflex control of the coronary circulation. Recent work has been directed to elucidating local metabolic control of coronary blood flow including the roles of adenosine, nitric oxide and K⁺ATP channels. In addition to coronary physiology, Dr. Feigl's research interests include neural control of the cardiovascular system, and development of research instrumentation. His honors include the Louis Katz Research prize of the American Heart Association, the Outstanding Research Award of the International Society for Heart Research, and the Carl Wiggers Award of the American Physiological Society.

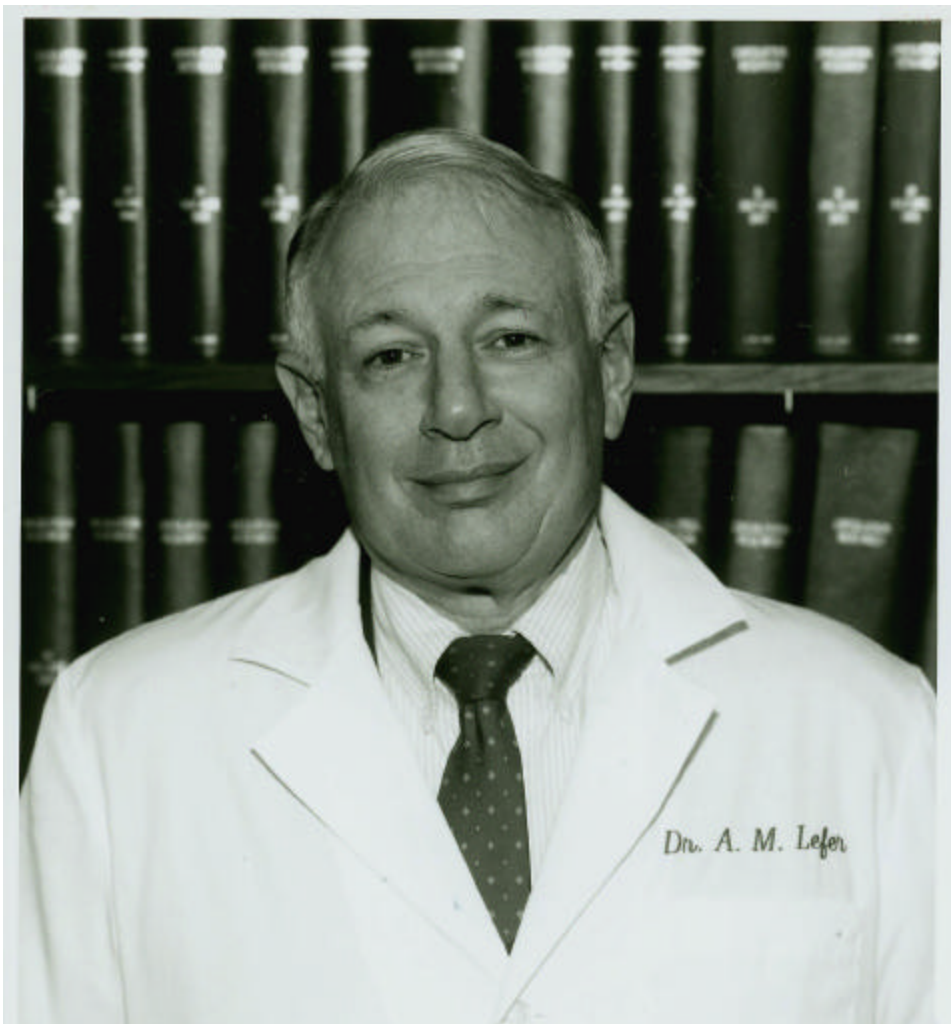
Eric is a mountain climber and an enthusiastic ski mountaineer. Indoors, he spends his leisure with classical music, theater and a wide range of reading. His wife Polly is an Emeritus Professor of



Biostatistics at the University of Washington.

Wiggers Award: Allan M. Lefer, PhD

Allan M. Lefer, PhD is the 2004 recipient of the Carl Wiggers Memorial Award, which recognizes outstanding and lasting contributions to cardiovascular research. The award, established in 1965, is made to an individual who will bring a broader and more international representation to the CV Section meetings. Dr. Lefer was born in New York City on February 1, 1936. He was raised on suburban Long Island and attended Adelphi College in Garden City where he graduated in 1957 with a B.A. in Biology. He then obtained a M.A. in Physiology at Western Reserve University in Cleveland, Ohio under Dr. George Sayers, and soon married Mary Elizabeth Indoe from LeRoy, Ohio. Allan Lefer then pursued studies toward a Ph.D. in Physiology at the University of Illinois, Champaign-Urbana under Drs. C. Ladd Prosser and D.C. Sutfin. Their first child, Debra Lynn was born in December 1961 just prior to graduation in 1962. Dr. Lefer and his family moved back to Cleveland, Ohio as an NIH postdoctoral fellow in Dr. George Sayers laboratory at Western Reserve University School of Medicine. Their second child, David Joseph was born in December 1963 (David is now an Associate Professor of Physiology at LSU Health Sciences Center-Shreveport).



Dr. Lefer completed his postdoctoral training in 1964 and accepted an Assistant Professorship at the University of Virginia School of Medicine in Charlottesville under the Chairmanship of W. Parker Anslow. In 1966, Dr. Robert Berne replaced Dr. Anslow who had passed away. That same year, twins were born to the Lefers, Barry Lee and Leslie Ann (Barry is currently an Atmospheric Chemist at the National Center of Atmospheric Research in Boulder, Colorado). Dr. Lefer's research moved into the area of circulatory shock and in 1967 he discovered myocardial depressant factor (MDF) with Dr. Eugene Brand. Dr. Lefer was awarded an Established Investigatorship by the American Heart Association from 1968 to 1973, and was promoted to Associate Professor in 1969. Dr. Lefer founded the journal **CIRCULATORY SHOCK** in

1973 (now called **SHOCK**) and served as its Editor for six years.

In 1974, Dr. Lefer assumed the Chair of the Department of Physiology at Jefferson Medical College of Thomas Jefferson University in Philadelphia. His research broadened to include studies on the cardiovascular effects of a variety of humoral factors including prostaglandins, thromboxanes, leukotrienes, PAF, cardioactive peptides, cell adhesion molecules, and nitric oxide. In 1990, his research group was one of the first to show beneficial effects of physiologic concentrations of nitric oxide on the circulatory system. Dr. Lefer was co-founder of the The Shock Society, and became its 6th President in 1983. He has trained 20 Ph.D. students and 58 postdoctoral fellows and trainees. He has published 639 refereed papers, 335 abstracts and has co-edited 8 books. He has received many awards including: Distinguished Alumnus of the University of Illinois, the First Distinguished Service Award of the The Shock Society, Honorary Life Membership of the College of Graduate Studies of Thomas Jefferson University, A Wellcome Trust Visiting Professorship, and a Pfizer Visiting Professorship. Dr. Lefer retired in 2001 after 27 years as Professor and Chairman of the Department of Physiology at Jefferson and became Professor Emeritus.

CV Section Young Investigator Award Recipients*

Cuihua Zhang, MD, PhD, Texas A & M University “Tumor Necrosis Factor-Induced Production of Superoxide Inhibits endothelium-Dependent NO-Mediated Dilatation of Coronary Arterioles: Role of Ceramid Signaling and Xanthine Oxidase”

Zoltan I. Ungvari, MD, PhD, New York Medical College, “Hyperhomocysteinemia-Induced Increased Superoxide Production in Coronary Arterioles: Role of TNF α , NAD(P)H Oxidase and iNOS.”

Shubha Shastry, St. Elizabeth’s Medical Center-Boston, “Estradiol Enhances Post-Natal Vasculogenesis and Mobilizes Endothelial Progenitor Cells After Tissue Ischemia.”

D. Walter Wray, MS, University of North Texas HSC, “Alpha-1 Versus Alpha-2 Adrenoreceptor Mediated Vasoconstriction in Humans”

Shyamal H. Mehta, MD, Medical College of Georgia, “NADPH Oxidase Inhibition Exerts a Neuroprotective Effect in Acute Ischemic Stroke “

Vyacheslav Korshunova, PhD, University of Rochester. “Flow -Induced Vascular Remodeling in Mice: Strain-Dependent Differences.”

Anitaben Tailor, PhD, LSU Health Sciences Center-Shreveport. “ Hypercholesterolemia-Induced Platelet-Endothelial Cell Adhesion in Postcapillary Venules is Attenuated by an H M G-CoA Reduction Inhibitor (Pravastatin)”

Scott Spier, MD, University of Texas at Tyler, “Effects of Age and Exercise Training on Myogenic Responsiveness of Skeletal Muscle Arterioles. “

Kimberly Kerr, MD, Indiana University, “Low Dose L-NAME mimics Impaired Collateral Development Observed with Endothelial Dysfunction.”

*The recipients of the CV Section Young Investigator Award will be recognized at the CV Section Banquet on April 14, 2003 in San Diego
