

MESSAGE FROM THE CHAIR



R. Clinton Webb

PhD, FAHA

Many wonderful memories pass through my mind as I write this farewell. It is bittersweet to think of not being directly involved with the leadership of the HBPR Council, but I will always be a part of this great organization and its mission.

One accomplishment that I am very pleased to see happen in the past two years is the founding of the Harriet Dustan Award recognizing female investigators who have made outstanding contributions in the field of hypertension. Dr. Dustan, an outstanding clinician and investigator, worked tirelessly on behalf of the council for more than 50 years, served as president of the AHA and was the first editor-in-chief of *Hypertension*.

As I hand over my post to the very capable Rhian Touyz, I want to thank the members for their important role in my successful tenure as chair. Over the past two years, you provided the spirit and direction for the council. A great deal of credit also goes to full-time AHA staff members Susan Kunish, Angela Johnson and Veronica Zamora. They are to be commended for their support. It has been a pleasure to serve.

Encourage your colleagues to join HBPR Council today!

Every year more than 100 scientists attend our fall meeting who are not members of our council.

Please encourage them to join as well as encouraging individuals to rejoin who have let their membership lapse.

Meeting Report

Rhian Touyz, MD, PhD, FAHA, Incoming Chair of the Council, Program Chair of the 64th Annual Fall Conference of the Council on HBPR

As program chair of the 2010 (64th) Annual Fall Conference of the Councils in High Blood Pressure Research and Kidney in Cardiovascular Disease, it is a pleasure to report back that this meeting was a great success.

This conference, among the most important and prestigious meetings on hypertension in the world, disseminates recent advances in hypertension research. It is an opportunity for learning, interacting and networking between scientists, basic and clinical. Attendance continued to grow this year with a record 750 registrants from over 20 countries. A one-day workshop preceding the conference was organized by Dr. Fred Luft and myself on “New Paradigms in Hypertension Research.” Workshop presentations by international experts covered receptors, channels and signaling; the new biology of the

RAS; immunity, salt and hypertension; and therapeutic approaches — beyond antihypertensive drugs. The annual meeting was opened by professor Anna Dominiczak of Glasgow, who gave a thought-provoking talk on

“Genomics, Proteomics, Metabolomics and Personalized Medicine in Hypertension: Where Are We Going?”

The abstract-based program included over 500 reviewed oral and poster presentations and was enriched by



Novartis Award for Hypertension Research

Left to right: Dr. John Oates and Dr. Paul Vanhoutte



Harriet Dustan Award

Left to right: Dr. Kathryn Sandberg, Dr. R. Clinton Webb (Chair), Dr. Rhian Touyz (Vice-Chair)

the many named award lectures from outstanding investigators in the hypertension community listed below. The assistance of the AHA staff, particularly Susan Kunish, the guidance and support from Drs. Clinton Webb (Chair) and Gabby Navar (Past Chair), the hard work by the Program Committee and the many hours spent reviewing abstracts by the reviewers made the meeting possible.

Supporting the next generation of hypertension investigators is a HBPR Council priority, demonstrated by the New Investigator and Travel Awards listed below. The contributions of HBPR Council members were further recognized by the presentation of AHA awards to two of our members, Drs. David Harrison and Gordon Williams. An initiative started in 2009 when the High Blood Pressure Research Council of Australia supported a presentation by Sonja Tesnovic Kljajic as their top trainee. To reciprocate, the Goldblatt awardee, Dr. Matthew Zimmerman, will attend the annual meeting of the Australian Council in 2011.



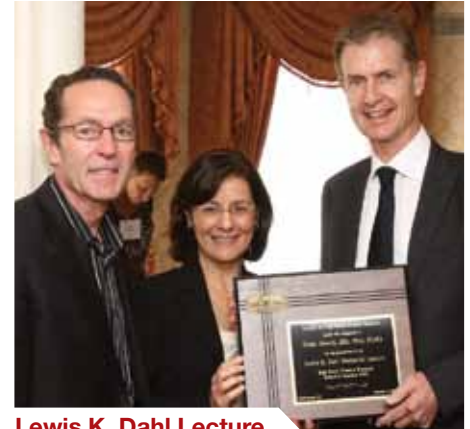
Arthur C. Cocoran Memorial Lecture

Left to right: Dr. R. Clinton Webb (Chair), Dr. Rhian Touyz (Vice-Chair), Dr. Tim Reudalhuber

The 65th meeting will take place in Orlando, Sept. 18–24, 2011. This very special meeting will be a joint conference with the InterAmerican Society of Hypertension (IASH).

2010 Awardees:

- Drs. Paul Vanhoutte and John Oates, Novartis Award for Hypertension Research
- Dr. Theodore Goodfriend, Irvine Page-Alva Bradley Lifetime Achievement Award in Hypertension
- Dr. Kathryn Sandberg, Harriet Dustan Award (Sponsored by Lippincott Williams and Wilkins)
- Dr. Tim Reudalhuber, Arthur C. Corcoran Memorial Lecture
- Dr. Brian Morris, Lewis K. Dahl Lecture
- Dr. Thomas Kleyman, Donald Seldin Lecture
- Dr. Matthew Zimmerman, Harry Goldblatt New Investigator Award; finalists for this award included Drs. Takayuki Matsumoto and Paras K. Mishra



Lewis K. Dahl Lecture

Left to right: Dr. R. Clinton Webb (Chair), Dr. Rhian Touyz (Vice-Chair), Dr. Brian Morris

- Drs. Jay N. Cohn, David G. Harrison and Gordon Williams, AHA Distinguished Achievement Awards

New Investigator Awards

Sponsored by the Council for High Blood Pressure Research

Frederique Yiannikouris, Christopher Pelham, Kathleen Beehner, Liminita Pohoga, Zhiying Shan, Heinrich Lob Hujing Xia, Xian Cao, Lin Gao, Phillip Kopf

New Investigator Awards

Sponsored by the Trainee Advocacy Council

Xiaolong Zhu, Kathirvel Gopalakrishnan, Di Feng, Christoph Kopp

New Investigator Awards

Sponsored by the Council on Kidney in Cardiovascular Disease

Nithya Mariappan, James Luther, Carmen De Miguel, Zhengong Guan

High Blood Pressure Research Council of Australia New Investigator Award

Sonja Tesnovic Kljajic,



American Heart Association®

HBPR 2011

High Blood Pressure Research
September 20–24

2011 Scientific Sessions | The Dolphin Hotel | Orlando, Florida

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Harry Goldblatt New Investigator Award Finalists Left to right: Dr. Paras Mishra, Dr. Matthew Zimmerman, Dr. Takayuki Matsumoto



HBPR – New Investigator Award
Council for High Blood Pressure Research New Investigator Awardees



KCVD – New Investigator Award
Council for Kidney in Cardiovascular Disease New Investigator Awardees



Trainee Advocacy New Investigator Award
Trainee Advocacy New Investigator Awardees



High Blood Pressure Research Council of Australia New Investigator Award
Left to right: Sonja Tesnovic Kljajic, R. Clinton Webb (Chair), Rhian Touyz (Vice-Chair), Kate M. Denton, Program Secretary for HBPRCA

Editor's note

Abstracts presented at the High Blood Pressure Research Conference will be published in the October issue of the AHA online journal *Hypertension* at <http://hyper.ahajournals.org/>.

Highlights and presentation slides from the conference can be found on the council website along with many other useful links and announcements.

Irvine Page-Alvin Bradley Lifetime Achievement Award: Theodore Goodfriend, MD, FAHA

I was blessed by wonderful parents and a superb education. My father, David, was a dentist who described the temporomandibular joint syndrome. He was my inspiration to do research. My mother stayed home to nurture my sisters and me and filled our house with incredible piano music.

I was educated in the public schools of Philadelphia, Swarthmore College, Penn Medical School, University Hospital in Cleveland and Barnes Hospital (Washington University) in St. Louis. One of my classmates, Harold Itskovitz, was fascinated by the renin-angiotensin system. I owe my early interest to his enthusiasm. Our professor of pharmacology at Penn, Carl Schmidt, was my inspiration to teach that discipline at Wisconsin. Sol Sherry and Carl Moore at Washington University and Robert Schilling at Wisconsin were exemplary clinician-researchers.

At NIH, I published my first paper on peptides. With Yale Topper, I showed that oxytocin and vasopressin had insulin-like activity. With Seymour Kaufman, I showed that methotrexate inhibited phenylalanine hydroxylation in women receiving that drug for choriocarcinoma. Kaufman had not yet discovered reduced biopterin nor its role in NO synthase.

After my residency, I received a Helen Hay Whitney Fellowship in Biochemistry at Brandeis University. Under the guidance of Gerry Fasman and Laurie Levine, I developed a simple method for coupling peptides like angiotensin and bradykinin to protein carriers, creating powerful immunogens for the peptides. That report was a "Current Contents Classic." Some of those antibodies paradoxically potentiated the actions of the peptides. (Angiotensin vaccine developers, beware!)

In 1965 I moved to the University of Wisconsin, where I was joined by Dennis Ball and Mary (Beth) Elliott. Forty-three years later, Dennis Ball is still in our lab. We developed radioimmunoassays for

those vasoactive peptides. Using the iodinated ligand, Shoie-Yn Lin-Shiau described angiotensin receptors. (She became chair of the Department of Pharmacology in Taipei.) Our receptor binding assay was adopted by industry to screen for possible angiotensin receptor-blockers.

Chuck Oday identified the major bradykinin receptor. (Chuck died prematurely while a professor at Indiana University.)

Rob Simpson and Chris Campanile showed that receptors in fetal tissue were clearly different from those in adult adrenals, reflecting the presence of subtypes we now know as AT-1 and AT-2. Ed Knych, John Carroll and Chris Campanile demonstrated effects of hormonal steroids and other lipids on receptor binding. The bovine tissue that was so useful to us came from a local abattoir. Despite having watched the "beef-kill line," I still love Oscar Mayer weiners.

Beth Elliott reported on the importance of calcium and inositol phosphates in angiotensin stimulation of aldosterone production, and the ability of natriuretic

peptides to inhibit it. Nick Hadjokas explored the role of monovalent cations. Frej Fyhrquist investigated receptors in plasma. Henk Hollemans showed the influence of metabolic energy on angiotensin binding. We found that torsemide inhibited aldosterone synthesis, helping to explain why that loop diuretic causes less potassium loss than others.

In retrospect, we were scratching somewhat superficially at a wide array of angiotensin-related phenomena. I might have been better advised to dig deeper into a few of them, but I thought it was beneficial to their development that each of my trainees work on something of their own. The atmosphere at Wisconsin, both in the medical school and at the Veterans Hospital where I moved in 1975, encouraged individualism. Being alone enabled me to graze in the new field of angiotensin receptors, and kept my idea-notebooks full, but I would advise investigators today to join groups, build teams and focus on a few discrete puzzles.

My most collaborative and clinical research began when Dennis Ball



Irvine Page-Alvin Bradley Lifetime Achievement Award in Hypertension

Left to right: Dr. R. Clinton Webb (Chair), Dr. Rhian Touyz (Vice-Chair), Dr. Theodore Goodfriend

showed that washing adrenal cells with delipidated albumin increased angiotensin binding to its receptors. We hoped the inhibitors removed by albumin would prove to be novel compounds, but they turned out to be well-known nonesterified fatty acids.

The focus on fatty acids led to clinical studies with Brent Egan and David Kelley that revealed a direct relationship between visceral obesity and plasma aldosterone. We postulated that visceral depots release fatty acids to the liver where they are metabolized to adrenal secretagogues, and indeed we found that several oxidized derivatives of linoleic acid stimulate aldosterone secretion. Although the precise roles of native and oxidized fatty acids remain unclear, the connection between obesity and aldosterone serves as one rationale for the surprising efficacy of aldosterone antagonists in some obese patients.

I have been gratified by teaching awards from medical students and I am proud to have guided some of those students in delivering health care to migrant laborers in Central Wisconsin and the homeless in Madison.

My lab has been supported by the American Heart Association, the University of Wisconsin, NIH, and for over 35 years by the VA, which is still a wonderful place to do basic and clinical research.

When I was a boy, it was my father who interested me in medical research. In my adult life, it has been my family, especially my loving wife of 30 years, Mary Lou, who have motivated all my worthwhile efforts.

I didn't know how my early research would prove relevant. Encouragement by Irvine Page, Merlin Bumpus, Harriet Dustan and Phil Khairallah at the Cleveland Clinic pointed me toward hypertension. They invited me into the Council for High Blood Pressure Research, and this council has continuously informed, inspired and sustained that interest, so your award is especially meaningful to me. I am extremely grateful

Trainee Advocacy Committee

Justin L. Grobe, PhD, Trainee Advocacy Committee Chair

It was wonderful to see so many trainees of the Council for High Blood Pressure Research at the HBPR 2010 Scientific Sessions in Washington, D.C., in October. Many trainees had opportunities to present their exciting ongoing research, and we had a great turnout for the Trainee Mixer event as shown in the accompanying photo. Along with a buffet dinner, we were treated to a presentation by Nancy J. Brown, MD, on her work spanning the gap between the bench and the bedside. Afterward, we held a heated

karaoke competition, with the grand winners picking up weekend vacation packages to the brand new Omni resorts in New Hampshire and Florida. We hope to see you in the competition next fall!

If you are already receiving our semiannual trainee newsletter, then you are on our mailing list. If you aren't sure about your membership status, please contact us so you don't miss out on opportunities targeted at students, postdocs and early career investigators!



Trainee Mixer

Attendees enjoyed the HBPR Trainee Advocacy Mixer

Report from the Membership Committee Chair

Jane Reckelhoff, PhD, FAHA

Welcome to our new fellows of the HBPR Council: Three new FAHAs were announced at the fall council meeting. Bina Joe, PhD, associate professor at the University of Toledo College of Medicine; Stephen J. Peterson, MD, professor at New York Medical College in Valhalla, and Jennifer C. Sullivan, PhD, assistant professor at the Medical College of Georgia. Kudos to them!!

Call for Fellowship Nominations: Do you know someone who has made outstanding contributions in basic, clinical or epidemiological hypertension research or in relevant basic sciences,

and has made volunteer service contributions to the AHA? Many senior investigators who have been Premium Members for a long time are not fellows of the AHA. Please nominate them. For more information, go to: americanheart.org/presenter.jhtml?identifier=1115 and click on **Fellowships**.

Encourage your colleagues to join HBPR Council today! Every year more than 100 scientists attend our fall meeting who are not members of our council. Please encourage them to join as well as encouraging individuals to rejoin who have let their membership lapse.