



SSIB *Intake*

Society for the Study of Ingestive Behavior Newsletter

VOL. XIX, NO. 2

President's Message

Dear SSIB members

Spring has finally sprung and the program committee is heading into the final straight in planning our annual meeting. With good fortune by our side the Europeans should be able to fly to Pittsburgh unless the Icelandic Eyjafjallajökull volcano continues erupting and sending yet more ash plumes to prevent flights to the USA. We may need to involve the British Navy to dispatch us across the "pond".



Marion Hetherington, D. Phil
President, SSIB

As I mentioned in the Autumn newsletter the University of Leeds was the proud host of the SSIB winter board meeting, on December 11th 2009. On the same day we held the **3rd Frontiers in Ingestive Behavior** meeting, with excellent presentations from board members and a cluster of interesting oral and poster presentations from students based in the UK and the Netherlands. Overall we had 45 registrants for the conference and feedback from the delegates was wholly positive. Next year it will be the turn of President-Elect Allen Levine to organise this, although given the extreme weather conditions suffered by Minnesotans (as low as -60 °F) perhaps the meeting will be virtual!

One of the issues raised at the **Winter Board** was to streamline the new investigator application process. This was organised by our new investigator representative on the Board, Clare Mathes (Florida State University). Also, Clare has suggested the room share option that is now available when you register for the meeting so that costs can be spread for those who wish to do this. For both of these initiatives, thanks go to Clare.

An ongoing issue for the Board is **membership**. At the moment, membership currently stands at 427 and we are open to suggestions on how to entice former members back to the society as well as to keep current members interested and involved. Suzanne Higgs as secretary and chair of the membership committee has been spearheading our recruitment drive which involves an incentive package for existing SSIB members who get a 50% discount on membership dues for recruiting a new Regular member (one member per year). Also, recruiting a previous member who has not paid dues for 3 or more years confers eligibility for this reduction. Please do all that you can to expand our membership!

The society's **finances** were also reviewed at the Winter Board, our Treasurer Ruth Harris has organised an improved investment plan for core funding with an interest bearing account. Even with global interest rates being what they are, it is still helpful to the society to have this additional funding... Every little helps, so thanks to Ruth and Jan at SPLTrak for organising this. Also an initiative suggested by Past President Tim Bartness to invite our membership to donate money towards the society and specifically the new investigator travel awards was accepted. There is now a **personal donation** section which you can use when renewing your membership. The initiative also invites our members to remember the Society in their wills. Such donations are extremely valuable to the ongoing work of the society and you can request that any donation be used for specific awards. Again, mighty oaks from little acorns grow, so please consider making a personal donation to the society.

From the Editor

Welcome to the Spring 2010 edition of INTAKE, newsletter of the Society for the Study of Ingestive Behavior. This edition is highly focused on *people* who have not only contributed important data and concepts to the field of ingestive behavior, and who have also infused the SSIB with the vitality and humanity which make it quite a special group.



Susan Aja, PhD
Editor, SSIB *Intake*

President Marion Hetherington pays tribute in her article to the 2010 SSIB Award recipients, who will be honored at SSIB Annual Meeting this July in Pittsburg, PA. She also dedicates her article to Dr. Dan Castellanos, who has unfortunately just passed away prematurely. Dan was a former SSIB member and recipient of multiple SSIB awards while he was a young investigator in the lab of Roger Reidelberger. He is survived by Victoria Hammer, also a former member of SSIB, from the lab of Dorothy Gietzen. I am sure those of you who had the pleasure to meet or know Dan, and Vicki, will join us in extending our heartfelt condolences to her. Anthony Sclafani has also contributed an obituary tribute to Dr. Henry Koopmans, a founding SSIB member well-known for his clever parabiotic and other gastrointestinal surgical preparations that illustrated the roles of gastrointestinal tract stimulation in the control of ingestive behavior.

We also have happy news to report. Dr. Steve Woods has just enjoyed a wonderful retirement party. Woodsfest focused on a day-long seminar featuring ongoing projects, by many members of SSIB and beyond, that have built upon important data and concepts that Steve has contributed to the field of psychological sciences over the last 40 years. We can neither confirm nor deny that the event included opportunities to exhibit behavioral tolerance.

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From the Editor (Continued)

Now, speaking of *people*...ahem...Folks, your names and contact information only appear in the Member Directory if your membership dues are *paid*. If you're not in the directory, I won't know to look up your recent scientific review articles, and we will miss out on this opportunity to learn of them, and to check out your research papers as well. So, pay those dues, preferably on-time! And while you're at it, recruit a colleague to join SSIB as part of the membership drive our Secretary and Membership Chair Suzanne Higgs has put together. This can save you big bucks.

Many thanks to Jamie Price at SPLTrak, for patiently waiting for me to recover files after my hard drive crashed, and for bringing to you a very nice looking newsletter once again. As always, we thank everyone who contributed to this newsletter.

-Susan Aja

Public Communications and Membership Committee

Do you have an abstract that you would like to have considered for a press release in advance of the meeting in Pittsburgh? If you have a newsworthy research item and would like the Public Communications Committee to draft a release please contact the Chair of the committee at any time (Suzanne Higgs, s.higgs.1@bham.ac.uk).

Are all of your students and post doctoral researchers members of SSIB? If not please encourage them to join the Society and benefit from the following:

- Reduced registration for the Annual meeting
- Possibility of obtaining a Young Investigator Award to attend the Annual meeting
- Involvement in the society through participation in the board and other committees
- Access to Members Only areas of the web site that includes job postings/membership directory
- Right to propose symposia for meetings
- Right to propose nominees for prizes and take part in prizes

Also remember that if you recruit a new Regular member (limit of one member per year) you are eligible for a 50% discount on your membership dues.

- Suzanne Higgs



Suzanne Higgs

New Investigator Awardees

CONGRATULATIONS TO THE NEW INVESTIGATOR AWARDEES!

John W. Apolzan, PhD
Medical College of Georgia

Jurriaan Born
Maastricht University

Viktoria Gloy
ETH Zurich

Roel C. J. Hermans
Radboud University Nijmegen

Claudia Leitner, PhD
Swiss Federal Institute of Technology

Jesus Mena
University of Wisconsin-Madison

Daniela T. B. Pereira-Derderian, PhD, PharmD
UT Southwestern Medical Center at Dallas

Eric Robinson
University of Birmingham

Radhika Seimon
University of Adelaide

Jessica Santollo
Florida State University



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SSIB Intake welcomes letters to the editor. All material submitted for consideration is subject to editing and condensation. Advertising rates are available from the SSIB central office.

SSIB Intake is the official newsletter of the Society for the Study of Ingestive Behavior.

President's Message (Continued)

Without wishing to bore you all on what was covered in the Board meeting, I would like to raise one final issue of interest. Ellen Ladenheim as the society Archivist has been involved in developing the SSIB family tree. The way that this is being planned for now is to use **Neurotree** which is a free, volunteer-run website which has been designed to help track one's academic genealogy. The goal is to collect information about the graduate student and postdoctoral connections between researchers in our field, based on what has been done already for Neuroscience. If you wish to look this up and check who is out there, go to <http://neurotree.org/neurotree/index.php>; it will help us to develop our SSIB family tree if you add yourself, then add a "parent" (your mentor) and then your "children" (your graduate students). Already there is a nice example of this for Dr Alan N. Epstein, I urge you to upload your information.

SSIB Awards. As we prepare for the annual meeting it is my pleasure to acknowledge the enterprise and enthusiasm of all who applied for the **New Investigator Travel Awards (NITA)** this year. The competition for these awards was, as ever, fierce. However, in the end the awards committee (chaired by President-Elect Allen Levine) decided on 10 winners who this year represent 5 different countries (Australia, the Netherlands, Switzerland, UK, USA). I wish to thank all who served on the awards committee for their efforts and to especially acknowledge ALL applicants to the NITA. It is you, our new and young (er!) members who hold the future of this society in your hands. The names of the award winners are provided on page 3.

It is also a great privilege to report the winner of the **Alan N. Epstein Research Award**, who this year is **Dr Lisa A. Eckel** from the Neuroscience Program, Florida State University. Many of you will already know Lisa through her long and dedicated service to the society as secretary; and of course you will be aware of Dr Eckel's considerable achievements in the field of sex differences in ingestive behaviour, specifically the estrogenic control of eating and the specific role of the nucleus tractus solitarius (NTS). Congratulations to Lisa. This year we are delighted to announce that the **Distinguished Career Award** goes to **Dr Mary Dallman**, formerly of the Biomedical Sciences Program University of California, San Francisco for her exemplary research career over 5 decades. She is known for her pioneering work on the role of the adrenocortical system on hypothalamic regulation of feeding behavior and metabolism; and the role of chronic stress on brain pathways regulating adreno-cortical, autonomic and behavioral responses to novel stressors. It is a particular pleasure to recognise the work of such a respected and prolific researcher at our annual meeting; and to acknowledge the significant impact of this research on our thinking within ingestive behavior. We look forward to honouring Mary Dallman in Pittsburgh.

In memoriam. It is with a heavy heart that I end this presidential address. I wish to dedicate this column to **Dr. Daniel (Dan) Anthony Castellanos**, who was a valued member of the society and who was a recipient of 3 of our New Investigator Travel Awards in 1994 (McMaster University, Hamilton, Ontario), 1995 and 1996. Dan was born in Havana Cuba on November 26, 1960. He graduated from Creighton University in Omaha, Nebraska with a B.S. in Biology, and he subsequently obtained a M.S. in Biology from the University of Nebraska at Omaha in 1990 and a Ph.D. from the Department of Biomedical Sciences and Physiology at Creighton University in 2001. His Ph.D. was supervised by Dr. Roger Reidelberger on the role of cholecystokinin (CCK) in the control of food intake. His first publication in 1994 was with Roger in the American Journal of Physiology on the suppression of food intake by CCK via non-endocrine mechanisms. They published more on the CCK story including a paper in 2003 in the same journal on the peripheral effects of CCK blockade on food intake. Dan's research interests then developed into the area of cell transplantation; specifically the impact of chromaffin cells on neural progenitor cell survival and on focal neurogenesis following spinal cord injury in the rat.



Dan was an accomplished scientist and an excellent mentor and teacher. He held academic positions at the University of Miami (Department of Neurological Surgery); Florida International University (FIU) (Clinical Physiology for Health Professionals; Department of Cellular Biology and Pharmacology). In 2009 he was appointed Assistant Dean for Curriculum and Medical Education and was a founding faculty member in FIU's College of Medicine. He really knew how to reach out to his students and challenge them. Although his physiology class was viewed as being difficult, he received high marks from his students for overall quality, helpfulness and clarity. His students held him in high regard as evidenced by the recognition he received for excellence in teaching in 2005 at Florida International University. Many of you will remember with great fondness that Dan (and his partner in crime J. Ernie Blevins) had a wicked sense of humour. Dan was the life and soul of the late night parties; his sense of fun and "joie de vivre" were inspiring. During his time in graduate school Dan was featured on a news program explaining how Dan was able to overcome obstacles to work in the lab. Dan also knew how to balance his academic pursuits with his outside interests. During this time Dan learned to ski, and he later learned to scuba dive while living in Florida. He will be fondly remembered by some at the VA Medical Center in Omaha, NE by the nickname "*Dan Mercaptellanos*". His determination to succeed was especially strong and there was so much more that Dan could have achieved; so much more he could have contributed. He will be sorely missed by the many SSIB members who knew him. Dan was married to Victoria Hammer Castellanos (Vicki) and they met at the SSIB meeting at McMaster in Hamilton, Ontario in 1994 (some images from that meeting are shown below). He was a dedicated and loving father to his 5 year old daughter Marai and a much loved husband to Vicki. He died on April 14th, 2010.

*Do not go gentle into that good night,
Old age should burn and rave at close of day;
Rage, rage against the dying of the light.* [Dylan Thomas]



Stephen C. Woods Retires

On April 23rd and 24th 2010, over 200 scientists, including many SSIB members, gathered in Covington, Kentucky for Woodsfest, the celebratory retirement event for Dr. Stephen C. Woods of the University of Cincinnati. Drs. Randy Seeley and Doug Ramsay organized and hosted the event, which featured a day-long seminar that celebrated Dr. Woods' contributions to and influences on the fields of psychological sciences, ingestive behavior, and energy balance. Dr. Woods will officially retire this summer as Emeritus, and all indications are that he will continue to be an active member of the SSIB and of the scientific community at-large while in "retirement".

Dr. Woods has authored over 430 publications so far. He has made many important contributions across a wide range of topics in psychological sciences and energy balance. One could perhaps place his unique influences into three categories.

First, Dr. Woods is probably best known to those of us who study energy homeostasis for his important work beginning in the late 1970s, showing that the pancreatic hormone insulin meets criteria for an adiposity signal to the brain that controls food intake to help regulate body weight. These studies also set the example for studies determining that the adipokine leptin, discovered 15 years later, is an adiposity signal as well. The exact mechanisms by which insulin functions to regulate adiposity and body weight continue to be an area of active study and debate today. Second, his earliest work with Dr. Dan Porte Jr. during the 1970s focused on neural control of the endocrine pancreas. In particular, the observations that rodents could be conditioned to release insulin in response to previously neutral stimuli compelled the field to strongly consider the brain controlling bodily fuel flux and metabolic status through learning mechanisms. Third, some of us might not have been aware that Drs. Woods worked with Dr. Ramsay during the 1980s and early 1990s testing hypotheses that animals develop behavioral tolerance to drugs that is largely situational and learning-based as shown in conditioning paradigms, as opposed to or in conjunction with mechanisms of physiological tolerance. The development of drug tolerance may be seen teleologically as an attempt by the body to protect itself against disruptive consequences of drug taking.



Dr. Woods extended this concept to consider that the intake of food ingestion and assimilation can also be seen as metabolically disruptive events to which the body develops physiological and behavioral responses that can be categorized as behavioral tolerance (e.g. cephalic insulin secretion, and satiation). Dr. Woods' essay review, "The eating paradox: how we tolerate food" (*Psychol Rev.* 1991;98(4): 488-50), holds a very interesting discussion on these issues. One can search on-line for Woodsfest.com to see the symposia sessions, which featured current research that has built upon his contributions to the field. In addition, the journal *Physiology and Behavior* will dedicate a future issue to the event, with articles contributed by Woodsfest attendees. According to one highly confidential source (who shall remain nameless, but whose name if it existed would be spelled R-a-n-d-y S-e-e-l-e-y), anyone who has ever worked with Steve Woods would say that he has been selfless, generous in his efforts to help others develop their own unique career paths, even in ways that might not have seemed congruent with his own interests. Steve has been known to say "This lab isn't about projects – it's about people..." and by extension, about the research questions that excite *them*. He has gone out of his way to provide continued "adult supervision" to a certain nameless, and unquoted, source. And of course, many individuals outside of the Woods laboratory have benefitted from his generosity and aid to their own research and career development. One of the ways he has done this is by being personally available at the SSIB Annual Meeting. He sees SSIB and its meeting as filling a highly important role, particularly for investigators in early stages of their careers.



So, when a highly productive and influential scientist retires, we throw a party, ideally extending an invitation to the individual who is retiring. But what kind of party is most fitting? A gathering at a fine restaurant? An open-bar event? So long as the food and libations accompany a scientific seminar that honors that individual's unique and important contributions to the field, perhaps it does not matter. As proof that Dr. Steve Woods was indeed invited to his own party, and even permitted to serve as Guest-of-Honor, a certain Nameless Source refrained from using Photoshop skills, and provided this un-doctored digital image of Steve surrounded by those who attended Woodsfest to congratulate him on a life's work well done.

Susan Aja, and a certain Nameless Source

Society Awardees

Alan N. Epstein Research Awardee



Lisa Eckel, Ph.D.
Department of Psychology
Florida State University

Distinguished Career Awardee



Mary Dallman, Ph.D.
Department of Physiology
University of California San Francisco

Member Review Articles

- Andersen AE, Ryan GL.** Eating disorders in the obstetric and gynecologic patient population. *Obstet Gynecol.* 2009; 114(6):1353-67.
- Blevins JE, Baskin DG.** Hypothalamic-brainstem circuits controlling eating. *Forum Nutr.* 2010;63:133-40. Epub 2009 Nov 27.
- Chen CY, Asakawa A, Fujimiya M, Lee SD, Inui A.** Ghrelin gene products and the regulation of food intake and gut motility. *Pharmacol Rev.* 2009 Dec;61(4):430-81.
- Hetherington MM, Cecil JE.** Gene-environment interactions in obesity. *Forum Nutr.* 2010;63:195-203. Epub 2009 Nov 27. Review.
- Langhans W.** The enterocyte as an energy flow sensor in the control of eating. *Forum Nutr.* 2010;63:75-84.
- Langhans W, Geary N.** Overview of the physiological control of eating. *Forum Nutr.* 2010;63:9-53.
- Lutz TA.** Roles of amylin in satiation, adiposity and brain development. *Forum Nutr.* 2010;63:64-74.
- Moran TH.** Hypothalamic nutrient sensing and energy balance. *Forum Nutr.* 2010;63:94-101.
- Schwartz GJ.** Brainstem integrative function in the central nervous system control of food intake. *Forum Nutr.* 2010;63:141-51.
- Shi H, Seeley RJ, Clegg DJ.** Sexual differences in the control of energy homeostasis. *Front Neuroendocrinol.* 2009 Aug;30(3):396-404.
- Shi H, Clegg DJ.** Sex differences in the regulation of body weight. *Physiol Behav.* 2009;97(2):199-204.
- Stunkard AJ, Allison KC, Lundgren JD, O'Reardon JP.** A biobehavioural model of the night eating syndrome. *Obes Rev.* 2009;10 Suppl 2:69-77.
- Watts AG, Donovan CM.** Sweet talk in the brain: glucosensing, neural networks, and hypoglycemic counterregulation. *Front Neuroendocrinol.* 2010;31(1):32-43.

Member Book Chapters

- Oxford Handbook of Developmental Behavioral Neuroscience. M.S. Blumberg, J.H. Freeman, and S.R. Robinson (Eds.). Oxford University Press, New York (2010).
- Rinaman and T.J. Koehnle.** Development of Central Visceral Circuits. pp. 298-321.
- Fat Detection: Taste, Texture, and Post Ingestive Effects (Frontiers in Neuroscience). J.-P. Montmayeur and J. le Coutre (Eds.). Taylor and Francis, Boca Raton (2009).
- Ackroff and A. Sclafani.** Oral and post-oral determinants of dietary fat appetite. (pp. 295-321).
- B.A. Baldo, W.E. Pratt, and A.E. Kelley.** Control of fat intake by striatal opioids. (pp. 323-344).
- R.D. Mattes.** Fat taste in humans: is it a primary? (pp. 167-193).
- J.C. Smith.** Orosensory factors in fat detection. (pp. 137-166).
- J.M. Stratford and R.J. Contreras.** Peripheral gustatory processing of free fatty acids. (pp. 123-136).

In Memoriam

In Memoriam: Henry S. Koopmans (1944 – 2010)

Henry S. Koopmans died on April 17, 2010 at age 66. He had retired as Professor at the University of Calgary in 2009 and shortly thereafter was diagnosed with cancer. Henry obtained his undergraduate degree in Mathematics from Harvard University and his PhD. in Physiological Psychology from the University of California, San Diego, where he studied with Anthony Deutsch. He was an associate professor at Columbia University, New York from 1973 to 1983 and a full professor at the University of Calgary from 1983 to 2009.

Henry's research focused on the role of the gastrointestinal system in the control of energy balance and obesity. He was an innovative researcher and master surgeon perhaps best known for his parabiotic cross-intestine preparation. His studies of crossed intestine rats showed that food intake is controlled by internal signals generated in the gut or from absorption of nutrients into the blood. Henry and his co-workers also pioneered the study of the effects of gastrointestinal (GI) bypass surgery on the feeding behavior of obese animals. Their early findings demonstrated that reduced food intake, rather than nutrient malabsorption, was the primary cause of weight loss. Henry then developed the ileal transposition preparation which revealed that nutrient overstimulation of the lower gut was largely responsible for the anorexia produced by the intestinal bypass. These early studies presaged the current interest in GI bypass surgery in rodents as research models to understand the anti-obesity and anti-diabetic effects of this surgery in humans. Henry's most recent research investigated the role of cannabinoid receptors on energy regulation.

Henry was an active member of SSIB and was a founding member of the SSIB Board. He organized one of SSIB's most memorable meetings: the 1996 conference held in Banff, Canada in the heart of the Canadian Rockies. Henry was also very active in the Obesity Society and organized that society's 1988 meeting in Banff. At the end of each of these meetings Henry conducted three day tours of the mountains for visiting scientists.

Henry was predeceased by his first wife Katherine Porikos, who was also a founding SSIB member. He will be dearly missed by his wife Jan, their children and grandchildren. Henry will also be missed by his friends and colleagues around the world. Tributes may be made to the Henry Koopmans Scholarship Fund or to the Koopmans Family Research Fund for Obesity Research (mailed to Pam Fawcett, Director of Development, Faculty of Medicine, University of Calgary, 3330 Hospital Drive N.W., Calgary, Alberta, T2N 4N1).

- Anthony Sclafani



Dr. Henry Koopmans believes the United Way is especially important "because it's local and supports the people in the community."

/ Photo by Stuart Gradon

SSIB 2010

18th Annual Meeting of the
Society for the Study of
Ingestive Behavior
July 13-17, 2010
Pittsburgh, Pennsylvania



Preliminary program for
the 2010 SSIB Meeting

Planning for the meeting program is finalized. The Mars's Lectures (formerly called the Masterfood Lectures) and the Symposia are set (details below). The abstract submission is complete and the oral and poster sessions have been decided.

Mars Keynote Lectures

Howard Fields: Title TBA
Robert Margolskee: Title TBA
John Speakman: Title TBA
Tim Walsh: Title TBA

Symposia

Brain Signaling

Tanya Little
Richard Mattes
Gary Schwartz
Patrick Tso

Translational Research

Dan Bessesen
Walter Kaye
Tim Moran
Jack Yanovski

Meal Entrainment

Andrew Butler
Carolina Escobar
Ralph Mistleberger
Rae Silver

Lateral Hypothalamic Neuron Projections

Luis de Lecca
Gina Leininger
Brian Oldfield
Garcia Petrovich

Weight Regain and Obesity Treatment

Marc Cornier
Paul Maclean
Michael Rosenbaum
Graham Thomas

Energy Homeostatis

Michael Lutter
Linda Rinaman
Randall Sakai
Mark Wilson

Presidential Symposium

Leann Birch
Barry Levin
Julie Menella
Sophie Nicklau

See you in Pittsburgh!

Harvey Grill (Program Chair), Alan Watts (Sub-Chair) Michael Lowe (Sub-Chair), Suzanne Higgs, Martin Yeomans, Derek Daniels, Kellie Tamashiro, Christine Feinle-Bissett, Matt Hayes, Jennifer Temple

SAVE THE DATE!

SSIB 2011

July 12-16, 2011; The Sheraton Sand Key Resort; Clearwater, FL, USA

SSIB 2012

July 10-14, 2012; ETH Zurich; Zurich, Switzerland

SSIB 2013

July 30-Aug 3, 2013; The Roosevelt New Orleans; New Orleans, LA, USA

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