

**AOCS Health and Nutrition Division  
Newsletter  
December 2010**

**101st AOCS Annual Meeting Report**

The Health and Nutrition Division would like to take this opportunity to review and highlight some of our Division's activities. First, thanks to all of you who attended the AOCS Annual Meeting & Expo held May 16-19 in Phoenix, Arizona. The H&N Division chaired five outstanding technical sessions with many excellent talks. We would like to express our appreciation to session organizers for their hard work including: Carol Lammi-Keefe and Brent Flickinger for "Lipids, Inflammation and Lipid Signaling Molecules," Pete Huth and Peter Jones for "Bioactivity and Emerging Benefits of Short and Medium Chain Fatty Acids," Eileen Bailey-Hall and Margaret Craig-Schmidt for "n-3, n-6 Benefits/Liabilities: Interactions, Competition," and Holiday Durham and Susan Raatz for chairing the General Nutrition sessions. We are also grateful to all the oral paper presenters and poster presenters who made the H&N technical sessions such a huge success. Our thanks also go to Susan Raatz who organized the student poster competition.

The H&N cocktail reception and dinner meeting was a great opportunity to mingle with H&N veterans and new members alike. The guest speaker was Dr. Michael J. Murray from the Mayo Clinic who gave an emotional and fascinating overview of his research in military hospitals in Afghanistan. Our sincerest appreciation goes to Dr. Murray for honoring our invitation to speak at this event.

**Executive Steering Committee**

**Chairperson**

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If you have an idea for a future technical session please email [Eileen Bailey-Hall](mailto:Eileen.Bailey-Hall) with your suggestion.

## Recognition and Awards

The H&N Division would like to congratulate this year's award recipients:

- The **Ralph Holman Lifetime Achievement Award** recognizes outstanding performance and meritorious contributions in the health and nutrition interest area. This year's award was presented to William E.M. Lands. The award lecture "n-3 and n-6 Acids Compete for Accumulation of Highly Unsaturated Fatty Acids (HUFA) in Tissues" was presented during the "n-3, n-6 Benefits/Liabilities: Interactions, Competitions" session.
- The **H&N Division Student Excellence Award** was presented to Jennifer E. Lambert, University of Alberta, Canada. The award lecture "Response of Liver Transplant Patients to Hypolipidemic Dietary Intervention: Role of Lipogenesis" was presented during the General Nutrition session; see Jennifer's profile in the "**Meet an AOCS Member**" section below.
- The **H&N Poster Awards** were presented to:
  - Danielle Durston, University of Manitoba, Winnipeg, won Best Overall Poster for the poster entitled "Canola and Flax Oils Attenuate Development of Obesity and its Associated Complications in Obese-prone Rats Fed High Fat Diets."
  - Gayatri Thiyam, University of Manitoba, Winnipeg, won first place in the Student Poster Award category for the poster entitled "Modulation of Lipid Droplet (LD) Formation and Cell Proliferation by Wy14643 in Response to Conjugated Linoleic Acid (CLA)."
  - Alicia Page, Louisiana State University, Baton Rouge, Louisiana, took second place in the Student Poster Award category for the poster entitled "Macular

- Pigment Optical Density During Pregnancy and its Relationship to the Diet.”
- Bo Gui, University of Saskatchewan, Canada, took third place in the Student Poster Award category for the poster entitled “The Bioactive Cyclic Peptides in Flax.”

Thank you to all of the students who participated in the oral and poster presentations. We encourage you to spread the word to your fellow students to become members of the Health and Nutrition Division and participate in our activities.

## **Sponsors**

The Health and Nutrition Division would like to thank the following organizations for their generous contributions toward Division events at the 101st AOCS Annual Meeting & Expo in Phoenix:

- **Archer Daniels Midland Company**
- **Martek Biosciences Corporation**
- **National Dairy Council**

The H&N Division is accepting contributions for the 2011 program. The Division’s income consists of membership dues, dinner ticket sales, and donations from individuals and businesses. This money is used for the scheduling of high profile keynote speakers at the Annual Meeting & Expo.

Division members can play an active and crucial role in fundraising by tapping into your networks. Businesses and individuals that sponsor a session will be recognized in the AOCS meeting program and in this newsletter. If you would like to help us achieve our goal of \$12,000 in sponsorship income, go to the [Division Administration and Resources webpage](#) and scroll down to the “Tools and Forms” heading. In addition to the Division Guidelines, there is a sample fundraising letter, a sponsor confirmation form, and a speaker funding worksheet. All donations great and small are encouraged.

We are pleased to announce recent contributions from

**Avanti Polar Lipids, Inc.** and **Mead Johnson** to help underwrite the costs of the “Lipid Modulators and Messengers” session to be presented at the 2011 Annual Meeting & Expo in Cincinnati.

## **Preview of the 102nd Annual Meeting & Expo, May 1-4, Cincinnati, Ohio**

The Phoenix roundtable meeting was very well attended and with many excellent suggestions for next year's program in Cincinnati. Thanks to our members for being so active during the discussions. Right now we are working on the following tentative program:

- Childhood Obesity
- Inflammation and Lipids
- Lipid Modulators and Messengers
- General Nutrition Sessions

We will also be working on the following joint sessions:

- Omega-3 Challenges: Stability, Processing, and Human Nutrition will be a joint session with the Lipid Oxidation and Quality Division
- Functional Lipids will be a joint session with the Biotechnology Division
- Applications of Phospholipids w/n-3 Fatty Acids will be a joint session with the Phospholipid Division

Updates and other conference information can be found at the official [Annual Meeting & Expo webpage](#). We hope that you will join us in Cincinnati for another exciting line-up of oral and poster presentations.

## **New Executive Committee Members**

Please welcome the new members of the Division's Executive Committee who took office at the Annual Meeting & Expo in Phoenix:

*Chairperson*

Carol Lammi-Keefe  
Louisiana State University, USA  
phone: +1-225-578-1518  
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*Secretary-Treasurer*  
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The H&N Division would also like to thank outgoing Chairperson Pete Huth for his service and dedication to the Division.

## **Meet an AOCS Member**

Jennifer Lambert is currently in her last year of her Ph.D. in nutrition and metabolism at the University of Alberta. Her project (which received the H&N Division Student Excellence Award) involves the use of stable isotope methodology to investigate synthesis of fatty acids and cholesterol in humans under influence of islet or liver transplantation, and dietary intervention. Elevation of plasma lipid levels is a frequent problem across many transplant groups and is attributed to immunosuppressive drugs. Jennifer's project evaluated the effects of a hypolipidemic diet intervention including fish oil, phytosterols, and soy among healthy humans and post-transplant patients. Synthesis of fatty acids and cholesterol were found to be lower in transplant patients compared to controls, potentially as result of immunosuppressive medications. Diet effectively lowered plasma lipids in healthy control subjects but not transplant patients. Diet also lowered de novo lipogenesis and cholesterol synthesis in controls but had mixed results in transplant patients. Therefore, immunosuppressive medications may influence fatty acid

and cholesterol synthesis in transplant patients, as well as affect their response to dietary therapy. Results from Jennifer's work are in preparation for publication, and expected to be published next year.

In the photo below, Jennifer is shown with outgoing AOCS President Ian Purtle, left, and current AOCS President J. Keith Grime, right.



## Hot Off the Presses!

### *Single Cell Oils*

#### *Microbial and Algal Oils, 2nd Edition*

Zvi Cohen and Colin Ratledge, Editors

2010. Softbound. 298 pages. ISBN: 978-1-893997-73-8.

Product code 249

List: \$140 • AOCS Member: \$115

### *Fatty Acids in Health Promotion and Disease Causation*

Ronald R. Watson, Editor

2009. Hardbound. 865 pages. ISBN 978-1-893997-65-3.

Product code 237

List: \$175 • AOCS Member: \$135

### *Focus on Obesity CD-ROM*

AOCS Professional Development Series

Patricia Kearney, MEd, Editor

2009. CD-ROM. ISBN 978-1-893997-69-1. Product code CD-245

List: \$89 • AOCS Member: \$71

### *Gourmet and Health-Promoting Specialty Oils*

AOCS Monograph Series on Oilseeds, Volume 3  
Robert A. Moreau and Afaf Kamal-Eldin, Editors  
2009. Hardbound. 595 pages. ISBN 978-1-893997-97-4.  
Product code 241  
List: \$165 • AOCS Member: \$132

### **Spread the Word!**

As you enjoy the contents of this newsletter please remember to pass its contents on to your colleagues with an invitation to join the Health and Nutrition Division. Membership is one of our chief sources of income that supports the Division's programming and activities.

Do you have news that would be of interest to members of the Health and Nutrition Division? If so, please email [Eileen Bailey-Hall](#) or [Holiday Durham](#).