

***In Vitro* and Alternative Methods Specialty Section
ANNUAL REPORT: May 1, 2015 to April 30, 2016**

July 27, 2016

I. Officers/Committees:

<u>Officers</u>	<u>2014-2015</u>	<u>2015-2016</u>
President:	Hans A. Raabe	John ("Jack") R. Fowle III
Vice President:	John ("Jack") R. Fowle III	Amy J. Clippinger
Vice President-Elect:	Amy J. Clippinger	Barbara Anne Wetmore
Secretary/Treasurer:	Abigail Jacobs	Abigail C Jacobs
Past President	Suzanne Compton Fitzpatrick	Hans A. Raabe
Councilors:	Saura Sahu	Haitian Lu
	Haitian Lu	Catherine E. Willett
PDA Representative:	Sridhar Jalgama	David Pamies
GSLC Representative:	Sanket Gadhia	Troy David Hubbard
Vice Student Representative:	Tejas Lahoti	Georgina Harris

PROGRAM COMMITTEE

2015-16 = Jack Fowle (Chair), Amy Clippinger (Vice-Chair), Hans Raabe, Barbara Wetmore, David Pamies, Troy Hubbard, Georgina Harris

COMMUNICATIONS COMMITTEE

2015-16 = Catherine Willett (Chair), Haitian Lu (Vice-Chair), Jack Fowle, Amy Clippinger, Abigail Jacobs, David Pamies, Troy Hubbard, Georgina Harris

NOMINATING COMMITTEE

15-2016 = Amy Clippinger (Chair; subbing for Haitian Lu), Jack Fowle, Hans Raabe, George DeGeorge, Suzanne Fitzpatrick

AWARDS COMMITTEE

2015-16 = Barbara Wetmore (Chair), Amy Clippinger (Vice-Chair), Jack Fowle, Hans Raabe

MEMBERSHIP COMMITTEE

2015-16 = Hans Raabe (Chair), Jack Fowle (Vice-Chair), David Pamies, Troy Hubbard, George DeGeorge

II. Activities:

2016 IVAM Annual Business Meeting was held at the Marriott at the Convention Center in "Blaine Kern Ballroom A" in New Orleans, Louisiana on March 16, 2016.

Approximately 130 people were in attendance.

Dr. Fowle called the meeting to order at 12:15 pm and then IVAM members participated in an organized networking session for the first 20 minutes of the meeting while eating lunch. Current IVAM officers and past IVAM Presidents were allocated to different tables to serve as

resource/catalyst for the session which was held to meet an IVAM member need identified in the poll of members noted below.

Dr. Fowle began the business portion of the meeting at 12:35 pm by thanking current IVAM officers, recognizing the new IVAM Officers, and welcoming new IVAM members. He then summarized key IVAM activities over the past year, including:

1. Actively engaged student and postdoc representatives as full partners in IVAM leadership activities to take full advantage of their talent and to provide them with training and mentorship in committee leadership and management
2. Polled IVAM membership about how SOT can provide maximum value and identified three major needs
 - a. Networking
 - b. Job leads
 - c. Webinar training about new alternative toxicity evaluation approaches
3. Used poll results plus IVAM goals to identify implications for networking, training and engagement networking session to open the annual business meeting
4. Updated the IVAM bylaws
5. Added a second graduate student to the IVAM Executive Committee
6. Wrote to each new 2015 SOT member individually to inform them about IVAM and its goals and to invite them to join our specialty section
7. Monitored national and international agencies, societies and organizations to identify workshops, symposia and meetings relevant to IVAM's mission and notified IVAM members about them so that they could participate if they wished
8. Reached out to IVAM past presidents to help identify potential candidates for IVAM leadership positions
9. Published IVAM Newsletter September 2015
10. IVAM officers endorsed Mel Andersen for 2016 SOT Merit Award
11. Explored common interests and potential mutually beneficial joint activities with our counterparts in China
12. IVAM officers facilitated table discussions at the Colgate Palmolive In Vitro luncheon held at the 2016 SOT meeting
13. Presented a webinar featuring two speakers describing the Integrated Approach to Testing and Assessment as well as Adverse Outcome Pathways (AOPs) and their use to evaluate and employ toxicity testing in the 21st Century approaches as more efficient and informative ways to test for and evaluate potential toxicity
14. IVAM student and postdoc reps were active participants in the GLSC and helped plan and conduct meetings
15. Reviewed 50 proposals for presentations at the 2016 SOT meeting. Recommended 18 for approval. 12 were accepted.
16. Initiated and made substantial progress on:
 - a. Revising and updating IVAM webpage
 - b. Modernizing the IVAM logo
 - c. Recognizing IVAM Postdoc Award winners by planning a webinar based on a winner's work (held May 18, 2016)
 - d. Led writing teams on two SOT policy statements

- i. Scientific, Regulatory and Public Perspectives on the Credibility and Use of Alternative Toxicological Test Methods in a Legislative Framework” (Expect SOT Council to discuss in September)
- ii. “21st Century Validation Strategies – One Size No Longer Fits All” (Expect Council to discuss in July)
- e. Commented on “Animals in Research” policy statement

Student Awards:

1st Place - Shih-Yu Chang, University of Washington, “Microphysiological Systems (MPS) to Identify Organ-Organ Interactions in Toxicology: Hepatic Metabolism Enhances Nephrotoxicity of Aristolochic Acid”

2nd Place - Leah Norona, University of North Carolina, “Modeling Drug-Induced Hepatic Fibrosis In Vitro Using Three-Dimensional Liver Tissue Constructs”

3rd Place - Ashley Maiuri, Michigan State University “A Promising, In Vitro Approach to Classify Drugs According to Their Potential to Cause Idiosyncratic, Drug-Induced Liver Injury”

Postdoc Awards:

1st Place – Jenna Currier, US EPA, “Investigating key event-based points of departure for adverse oxidative events in human bronchial epithelial cells exposed to zinc: A systems biology approach”

2nd Place – Michelle Angrish, US EPA, “Adverse Outcome Pathway (AOP) Network Development for Fatty Liver”

3rd Place - Sreenivasa Ramaiahgari, NIEHS, “Metabolically Competent HepaRG Spheroid Model for In Vitro Toxicology Studies”

2016 SOT Annual Meeting Courses/Sessions:

Reviewed 50 proposals for presentations at the 2016 SOT meeting. Recommended 18 for approval. 12 were accepted.

Endowment Fund Details:

None

Newsletters:

Published a newsletter in September 2015. Considered publishing a second one in Spring 2016, but decided to postpone a policy of two newsletters per year until 2017 given all the other activities launched this year.

Teleseminars:

January 27, 2016 - Held a webinar with two presentations: 1. “Introduction to the concept of Adverse Outcome Pathways and IATA according to the Organization of Economic Cooperation and Development—Kate Willett, Director Regulatory Toxicology, Risk Assessment and Alternatives, Humane Society of the United States; AND 2. “Practical application of IATA including non-

standard test methods—Anna Lowit, Senior Scientist, Office of Pesticide Programs, US Environmental Protection Agency.

Planned for a Webinar held May 18, 2016 - by Jenna Currier, PhD, 2016 IVAM Postdoc Award Recipient, titled "What's in a tipping point? Using systems biology to characterize adaptive and adverse oxidative responses in human lung cells" and Shih-Yu Chang, 2016 IVAM Student Award Recipient, titled "Microphysiological Systems (MPS) to Identify Organ-Organ Interactions in Toxicology: Hepatic Metabolism Enhances Nephrotoxicity of Aristolochic Acid".

White Papers:

Led efforts to draft revised policy statements for SOT council consideration on:

1. Scientific, Regulatory and Public Perspectives on the Credibility and Use of Alternative Toxicological Test Methods in a Legislative Framework" (Expect SOT Council to discuss in September)
2. "21st Century Validation Strategies – One Size No Longer Fits All" (Expect Council to discuss in July)
3. Commented on "Animals in Research" policy statement

Contributions to SOT website:

Made progress to update IVAM logo and revise the IVAM webpage on the SOT website

Other Specialty Section 2015-2016 Activities:

See Annual Meeting Summary