

**Physiology, Biochemistry, and
Toxicology (PBT) Networking Section**

09-25-2016

**Convention Center, West Hall F (WF3)
Orlando, Florida**

Agenda

11:30 am Reception

12:30 am Introduction - Nannan Liu

12:40 pm Presentations

12:40 pm The Taming of the Symbiont: Insect Exploitation of Microorganisms from a Physiological Perspective. **Angela E Douglas**, Cornell University.

1:10 pm Mimetic analogs of neuropeptides as rational tools in the development of pest insect management - **Ronald Nachman**, USDA-ARS.

1:30 pm Leveraging natural genetic variation to identify molecular mechanisms of cold tolerance. **Nicholas Teets**, University of Kentucky.

1:50 pm Break

2:00 pm PBT Business meeting

Recognition - Peter Jensen

Governing Board Report - Carol Anelli

Treasurer Report - Richard Mankin

ESA Science Policy Statement Development - Qisheng Song

PBT Award Committee Report and Expectations - Josh Benoit

New Business - Blair Siegfried leads the discussion

PBT Governing Board 2016

President:	Nannan Liu
Vice President:	Peter Jensen
Vice President Elect:	Blair Siegfried
Past President:	Qisheng Song
Treasurer:	Richard Mankin
ESA Gov Board Rep:	Carol Anelli

Presentations

The Taming of the Symbiont: Insect Exploitation of Microorganisms from a Physiological Perspective. **Angela E Douglas**, Cornell University.

Mimetic analogs of neuropeptides as rational tools in the development of pest insect management - **Ronald Nachman**, USDA-ARS.

Leveraging natural genetic variation to identify molecular mechanisms of cold tolerance. **Nicholas Teets**, University of Kentucky.

Recognition

PBT Members Who Won Awards in 2016

Gerhard Gries (Simon Fraser University) - ESA Professional Award - Recognition Award in Insect Physiology, Biochemistry, & Toxicology

Adrian A. Smith (North Carolina Museum of Natural Sciences) - STEP Early Career Professional Awards

Nicholas Teets (University of Kentucky) - STEP Research Award

Ronald Nachman (Southern Plains Agricultural Research Center, USDA, Texas) – Fellow 2016

Leslie Pick (University of Maryland) – Fellow 2016

Recognition

**PBT Vice President-Elect 2017 - David
O'Brochta**

**PBT Incoming Vice-President Elect for 2018
- Dr. Kun Yan Zhu**

Recognition

PBT Representatives in ESA Standing Committees

Committee	Name	Start Dt	End Dt
Meeting Program Committee	Dr. Nannan Liu	11/19/14	09/30/16
Meeting Program Committee	Dr. Peter Jensen	11/19/15	09/30/17
Meeting Program Committee	Dr. Blair Siegfried	12/15/16	09/30/18
Awards & Honors Committee	Dr. Fang Zhu, Dr. Josh Benoit	12/15/16	09/30/18
Education & Outreach Committee	Dr. Florence Dunkel	11/19/14	11/15/17
Certification Corporation Governing Board	Dr. Carol Anelli	11/19/14	11/15/17
ESA Governing Board	Dr. Carol Anelli	11/19/14	11/15/17
ESA Science Policy Capability Committee	Dr. Qisheng Song	02/18/16	11/14/18
Membership Committee	Dr. Margaret Allen	11/19/14	11/15/17
Student Affairs Committee	Mr. J.D. Gantz	11/19/16	09/30/18
Diversity and Inclusion	Dr. Kun Yan Zhu	11/19/16	09/30/18

Recognition

ESA Editorial Boards Representative

Journal	Name	Start Dt	End Dt
American Entomologist Editorial Board	Dr. Julian Hillyer (Re-E)	11/14/16	09/30/20
Arthropod Management Test Editorial Board	Dr. Troy Anderson Anderson) D. Anderson)	11/14/16	09/30/20
Annals Editorial Board	Dr. Mark Brown (Re-E)	11/14/16	09/30/20
Journal of Economic Entomology Editorial Board	Dr. Xuguo Zhou	11/19/14	11/21/18
Journal of Integrated Pest Management Editorial Board	Dr. Cecillia Tamborindeguy	11/19/15	11/21/19
Journal of Medical Entomology Editorial Board	Dr. Joshua Benoit (Re-E)	11/14/16	09/30/20
Publications Council	Dr. Guy Smagghe	11/14/16	11/18/20
Journal of Insect Systematics and Diversity	Dr. Zhou, Xuguo	02/17/16	11/21/19
Journal of Insect Science	Dr. Haobo Jiang	11/15/15	11/21/19
Thomas Say Editorial Board	Dr. Elizabeth F. Beckemeyer	11/19/14	11/21/18

PBT sections/sessions in ICE 2016

In 2016, PBT has six section, 24 sessions with a total of 331 paper (fifteen min) presentations. The section and sessions are listed below:

Ecology and population dynamics	Behavior; Community; Community Services; Interactions; Pest Management; Power of Prediction; Sampling
Insect Chemical Ecology	Attractants; Physiology; Plant Protection Original
Apidology, Sericulture and Social Insects	Management; Physiology, Genetics, and Genomics; Behavior; Environmental Responses; Ecology
RNAi and gene expression control	Pest Management; Interactions
Insect Immunology	Molecular; Environment
Physiology and Biochemistry	Neurophysiology and Hormone Regulation; Toxicology, Metabolism, and Nutrition; Molecular/Genetics/Genomics; Fundamental

Governing Board Report

Carol Anelli

Treasurer Report

Richard Mankin

ESA Science Policy Statement Development

Qisheng Song

Move PBT science in new directions (how??) through the education of Members and the adoption of new technologies with a workshop in 2017 that will promote the usefulness of biotechnology for human society (when will be exactly? Where? a team/committee for the workshop in 2017 [the people with strong experiences in new technologies in the committee], and etc.)

Defining the direction of the workshop (how??) and

Award nominations from the PBT Section

Josh Benoit

Long version with description

Professional Awards

1. ESA Honorary member

The purpose of Honorary Members is to emphasize the high value that the ESA places on service by its members. This award recognizes extraordinary service by ESA members who have had significant involvement in the affairs of the Society for at least 20 years.

Suggestions: _____

Willing to serve as a nominator: (Circle) Yes or No If yes, name: _____

Short version (no descriptions)

PBT award suggestions for 2017

Name _____

1. ESA Honorary member

Suggestion: _____

Willing to serve as a nominator: (Circle) Yes or No

New Business

Blair Siegfried

- 1) Move PBT science in new directions through the education of Members and the adoption of new technologies with a workshop in 2017 (when? where? who?).
- 2) Defend science within entomology (how??) and create a safe environment for dialogue (by when??).