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SOCIETY FOR NEUROSCIENCE

# THE TRIANGLE TRANSMITTER

## Welcome New Triangle SFN Council Members!

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CH/High Point)

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John Meitzen

### Communications Chair

Deirdre Sackett (UNC-CH)

### Secretary/Treasurer

Meghan Rebuli

### New Council Members

Nate Crosby, Sheryl Arambula, Eric Bauer,  
Kristen Ryan, Leslie Wilson

## SEPTEMBER 2016

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## Mark Your Calendar for These Upcoming Events!

**October 31:** East Carolina  
University 18<sup>th</sup> Annual  
Neuroscience Symposium; East  
Carolina Heart Institute (9:00 am –  
4:30 pm)

**November 8:** 2<sup>nd</sup> Annual T-K Li  
Distinguished Lecture by Dr. Carl  
Hart; Great Hall, Trent Semans  
Center (4:00 pm)

**November 5:** Engineer's  
Day at the Durham Museum  
of Life and Science (9:00  
am – 4:00 pm).

**November 12-16:** Society  
for Neuroscience 2016, San  
Diego. See page 8 for a list  
of talks by Triangle  
scientists!

*Have an event you'd like to promote? Send an email to  
[trianglesfnnews@gmail.com](mailto:trianglesfnnews@gmail.com) to have your event added to our  
calendar at <http://trianglesfn.org/calendar-of-event>*

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published by the Triangle Chapter  
of SfN.

Production Manager:  
Deirdre Sackett

Contributors:  
Stephanie Proano  
Rachel Haake

## Looking Back: Triangle SFN Spring 2016 Conference

by Rachel Haake

As a first year graduate student at UNC, this was my first experience with the Triangle SFN Spring conference, and it far surpassed my expectations. Every portion of the event provided opportunities for young academics from across the state to network and communicate with one another. The conference began with a catered lunch and lively discussion with Dr. Keith W. Kelley, editor-in-chief of the academic journal *Brain, Behavior, and Immunity*. We not only learned how Dr. Kelley rose to the editor-in-chief position at BBI, but we also heard him speak passionately about the scientist's crucial role in promoting health and wellness. Throughout these conversations, graduate students, post-docs, and even young professors reflected upon the importance of effective communication in all scientific endeavors.

After the lunch, we were welcomed to listen to three speakers, each from a different university within, and beyond, the Triangle. Dr. Cagla Eroglu from Duke University spoke about astrocyte signaling and control of synaptic activity. Dr. Garret Stuber from UNC followed next, presenting his research on neural circuits that control motivated behaviors. Finally, Dr. Wayne Silver from Wake Forest University spoke to us about chemesthesis – the sensations (smells and tastes) elicited by chemical stimulation of the trigeminal nerve. It was exciting to realize that the compelling work of these well-respected scientists – on such a broad range of topics – comes from our own Triangle.

Following the local speaker presentations, we were invited to attend a poster session featuring graduate students and post-docs from all over the Triangle. I was impressed by the array of research areas covered by the posters; one presenter spoke to

me about his research on the visual field in monkeys, while another presented her work on embryonic neurogenesis. Beyond the research posters, there were several booths for outreach committees and organizations, as well as research equipment companies and vendors. This poster session was an excellent way to cultivate collaboration among researchers and businesses in the Triangle.

The conference ended with Dr. Kelley giving a talk on neuro-immune interactions, reminding us all that influential science depends upon a holistic understanding of human health and wellness. I am confident that Dr. Kelley's talk, and the entire Triangle SFN conference, inspired all attendees to pursue a collaborative environment within and between their academic institutions. I look forward to attending again next year!

### ***Congratulations to our SFN 2016 Travel Award Recipients!***

#### **Prizes:**

**1<sup>st</sup> Place: \$1000**

**2<sup>nd</sup> Place: \$500**

#### **Postdoctoral Winners:**

**1<sup>st</sup> Place: Katie Baldwin**

**2<sup>nd</sup> Place: Akiyoshi Ueru**

#### **Graduate Winners:**

**1<sup>st</sup> Place: Alex Carlson**

**2<sup>nd</sup> Place: Kelly Carstens**

## Triangle SFN Turned Two! A Recap of Our 2<sup>nd</sup> Anniversary Party

This past July, Triangle SFN members gathered at RTP Headquarters to celebrate the chapter's success since reactivation two years ago, and to look back at the chapter's numerous achievements in the past year. Highlights of the 2015-2016 year included the Brain Awareness Week event at NC State, a neuroscience trivia night at Bull McCabe's pub in Durham, and the 2<sup>nd</sup> Annual Spring Conference.

Members socialized during a reception featuring food, drinks, and live music from The Blue Wild. Following the reception, the executive board and committee chairs welcomed new committee chairs and members, and gave updates on the status of the chapter.

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*Some highlights from Triangle SFN's 2<sup>nd</sup> Anniversary!*





# Save the Date!

**Thursday, April 13th, 2017**

## 2017 Triangle SfN Spring Conference

Distinguished Local Speakers:

Dr. Serena Dudek

Dr. Leslie Sombers

Dr. Michael Nader



10am-6pm

Raleigh-Durham Embassy Suites

Registration opens February 2017 at  
[trianglesfn.org](http://trianglesfn.org)



**SPECIAL KEYNOTE ADDRESS:**

**DR. DAVID ANDERSON**



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## Brain Awareness Highlights

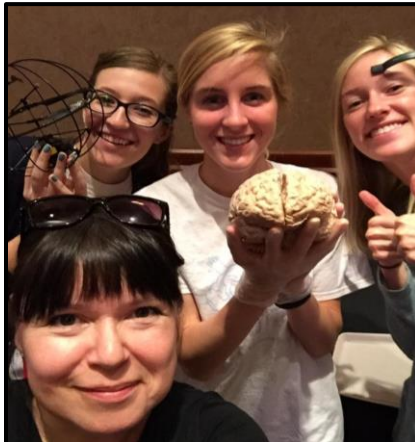
### Neural Connections

Neural Connections, an undergraduate science outreach club at UNC (founded by Triangle SfN member Dr. Marsha Penner), has been busy! They've gone to the Museum of Life and Science in Durham for the *Science of Wine and Cocktails and Cosmonauts*, both events for 21+ adults. As part of Neural Connections, these undergraduate students also presented at local science expos and designed their own fun activities to engage the public in the wonders of the brain. Dr. Penner even fulfilled a lifetime dream of constructing a human sized radial arm maze!

*Cocktails and Cosmonauts*



*Girls World Expo*



*UNC Science Expo*



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### Neuroscience Art Show

The Neuroscience Art Show was held on March 22 in Chapel Hill. Local artists contributed beautiful and provocative art with a neuroscience theme. It also featured an interactive "make your own neuron" activity.





## STEMville Family Science Night

STEMville is an outreach program developed by UNC's Morehead Planetarium. STEMville is a fictional place where children can see and experience STEM skills (science, technology, engineering, and math). The program is designed to give every child access to STEM skills. Morehead hosts many STEMville events throughout the year. Below, undergraduate volunteers helped teach elementary school



## Science Scircus

On March 16, the Science Scircus brought the "Big Top" to the NC State University Brickyard. The event showcased the marvels of the brain and highlighted the research of NC State neuroscientists. Over 200 visitors, ranging from elementary school students to undergraduates, learned about the human brain. Some brave and curious participants even got to hold a real human brain!

Visitors also tested their visual perception by playing a game using vision-distorting glasses while aiming for a target. Others observed action potentials in a cockroach leg and learned how hormones make us fall in love.

-David Dickson



## Triangle SfN Neuroscience Trivia

On March 14, Triangle SfN held its first ever Neuroscience Trivia at Bull McCabe's Irish Pub. The event was open to everyone -- not just neuroscientists! -- and challenged trivia-goers' knowledge of the brain, diseases, and famous scientists. Prizes were given out to the winning teams.

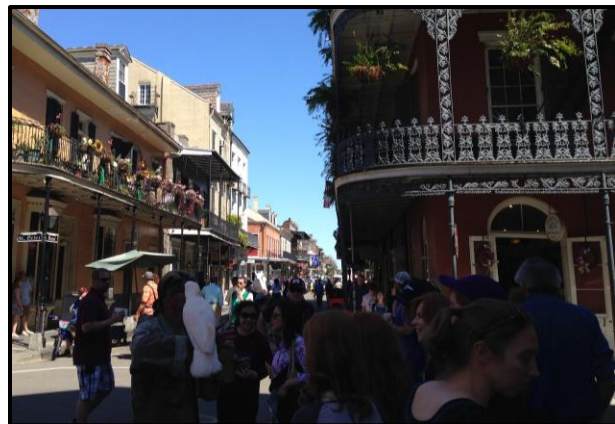


## 2016 Meeting of the Society of Toxicology

The 55<sup>th</sup> Annual Meeting of the Society of Toxicology was held in New Orleans, LA from March 13 - 17, 2016. The meeting attracted 6,812 attendants from all over the globe to learn about the scientific advancements in the field of toxicology over the past year. Events included symposia, roundtables, workshops, plenary lectures, and over 2,500 posters. This meeting was especially interesting to attending neuroscientists, as one of the themes was “Advances in Neurotoxicology.” This theme included 10 poster sessions, a variety of symposia and workshops, and was the focus of the plenary session on Tuesday, March 15<sup>th</sup>.

This plenary session featured Dr. Stephen Skaper (University of Padua, Italy), speaking about “Mast Cells and Glia: Two Tracks on the Road to Neuroinflammation,” and Dr. Alan Faden (University of Maryland School of Medicine), speaking about “Inflammation and Neurodegeneration in CNS Injury: Evolving Concepts and New Therapeutic Targets.” Both speakers focused on the importance of immune cell types (microglia, astrocytes, and mast cells) within the brain, especially in the context of inflammation after injury and disease. Local Triangle SfN members participated in the meeting by leading a continuing education course, presenting at a workshop, and presenting at a symposium. Overall the meeting was very informative, covering a wide variety of topics and systems, but it was especially well-appreciated this year because of the Neurotoxicology thematic focus.

-Meghan Rebuli



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## Science Policy Update

The Science Policy Working Group of the Triangle Chapter of the Society for Neuroscience recently sent out thank you letters to members of Congress who voted for an increase in NIH funding for fiscal year 2016. As so much of our research is dependent upon federal funding, we believe it is essential to let members of Congress know how important these funding levels are to the continued success of our research. We urge all of our members to contact your local representatives to let them know how important NIH funding is to new advances in Neuroscience. If you would like to become more involved with the Science Policy Working Group, or to join the Science Policy email list, please contact Ryan Bell at [trianglesfnscipol@gmail.com](mailto:trianglesfnscipol@gmail.com)

## Sneak Peek at Society for Neuroscience 2016 – San Diego November 12 – 16

### Special Lecture

#### **R.D. Mooney (Duke)**

*From Song to Synapse: Vocal Communications in Sparrows, Finches, and Mice*  
November 15, 10:00-11:10 AM  
Location: SDCC Ballroom 20

### Symposia

#### **S.H. Soderling (Duke)**

*Synaptic Cytoskeletal Disturbances That Drive Abnormal Wiring and Behavior*  
Session 002 – Synaptic Actin Dysregulation: A Convergent Mechanism of Mental Disorders?  
November 12, 1:35-2:00 PM  
Location: SDCC 6B

#### **A. Peterchev (Duke)<sup>a</sup>; F. Frohlich (UNC)<sup>b</sup>**

a. *Shaping the TMS Waveform for Selective Neural Recruitment and Enhanced Neuromodulation*;  
b. *From biophysics to treatment: rational design of non-invasive brain stimulation to modulate thalamo-cortical oscillations*  
Session 373 – Advances in Noninvasive Brain Stimulation Along the Space-Time Continuum  
November 14, a. 2:10-2:45 PM; b. 2:45-3:20 PM  
Location: SDCC 6B

### Minisymposia

#### **J. Hokanson (Duke)**

*Beyond Sacral Root Modulation: How Can One Modulate the Peripheral Nerve to Impact Bladder Function?*  
Session 006 – Visceral Autonomic Nerves as Targets for Precision Bioelectronic Medicines  
November 12, 1:35-1:55 PM  
Location: SDCC 6E

#### **C. Eroglu (Duke)**

*Control of Synaptic Connectivity by Astrocytes*  
Session 192 – Astrocytes as Active Participants in Neural Circuits: From Cells to Systems  
November 13, 1:35-1:55 PM  
Location: SDCC 6B

#### **J.H. Gilmore (UNC)**

*The UNC Early Brain Development Study: New Insights into Human Postnatal Brain Development*  
Session 277 – Human Brain Development and Maturation: Animal Brain Mapping, Human Brain Imaging, and Computer Simulation  
November 14, 9:55-10:15 AM  
Location: SDCC 28A

#### **T. Ghashghaei (NC State)**

*Transcriptional Control of Delamination in The Developing Cortex*  
Session 657 – Neural Stem Cells to Cerebral Cortex: Emerging Mechanisms Regulating Progenitor Behavior and Productivity  
November 16  
Presentation: 8:55-9:15 AM, Session: 8:30-11:00 AM  
Location: SDCC 29D



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## NORTH CAROLINA TRIANGLE CHAPTER SOCIETY FOR NEUROSCIENCE MEMBERSHIP INFORMATION

### Annual Dues:

Regular Membership: \$20.00/year or \$50.00/3 years

Student Membership: \$5.00/year or \$12.00/3 years

Partner Membership: \$25.00/year or \$60.00/3 years

Membership in Triangle SfN  
does not require membership in  
National SfN

TO RENEW OR MANAGE YOUR MEMBERSHIP, VISIT US ONLINE AT  
[www.trianglesfn.org](http://www.trianglesfn.org)

## Keep in Touch!

### General questions and comments:

[TriangleSfNChapter@gmail.com](mailto:TriangleSfNChapter@gmail.com)

### Communications committee:

[TriangleSfNNews@gmail.com](mailto:TriangleSfNNews@gmail.com)

Twitter: [@Triangle\\_SfN](https://twitter.com/Triangle_SfN)

### Facebook:

[facebook.com/groups/trianglesfn](https://facebook.com/groups/trianglesfn)

### LinkedIn:

[Society for Neuroscience Triangle Chapter](https://www.linkedin.com/groups/Society-for-Neuroscience-Triangle-Chapter)

Website: <http://www.trianglesfn.org>



## NGS ON TAP

**Date:** November 14, 2016

**Location:** Mission Brewery  
1441 L St., San Diego, CA  
92101

**Time:** 6:00 p.m. – 9:00 p.m.

All attendees will receive a NGS on Tap pint glass!\*



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<https://agilent.cvent.com/NGSOT-CA>



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\*Healthcare Providers are not eligible to receive giveaways.

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### Speakers



**Dan Konet, Ph.D.**  
Agilent Technologies,  
Inc.



**Whitney Wooderchak-Donahue, Ph.D.**  
University of Utah & ARUP  
Laboratories



**Anup Parikh, Ph.D.**  
10x Genomics

### Agenda

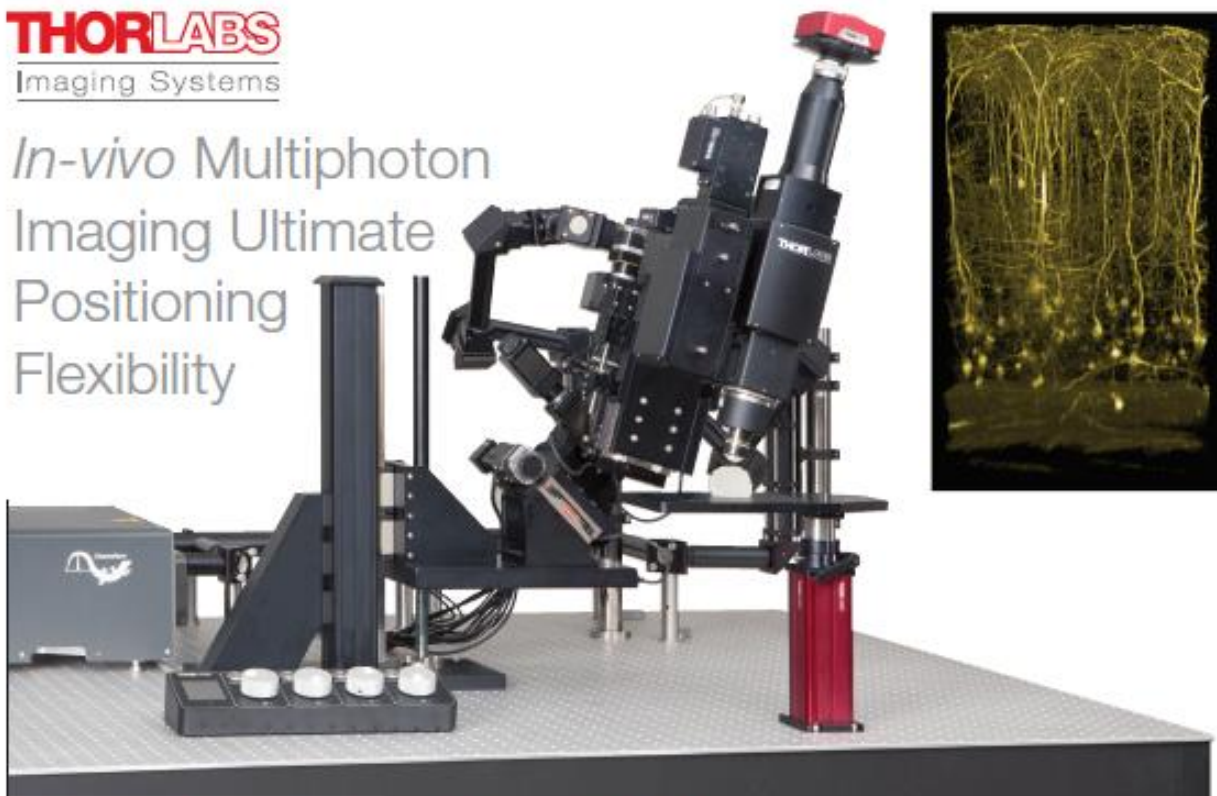
- |                       |  |
|-----------------------|--|
| 6:00 p.m. – 6:30 p.m. | Doors open, Registration and Networking                                  |
| 6:30 p.m. – 6:45 p.m. | Dan Konet, Ph.D, Agilent Technologies, Inc.                              |
| 6:50 p.m. – 7:15 p.m. | Whitney Wooderchak-Donahue, Ph.D, University of Utah & ARUP Laboratories |
| 7:15 p.m. – 7:30 p.m. | Refreshment Break  |
| 7:35 p.m. – 7:55 p.m. | Anup Parikh, Ph.D, 10x Genomics  |
| 8:00 p.m. – 9:00 p.m. | Science Trivia, Networking   |

[See reverse for detailed agenda and speaker bios](#)



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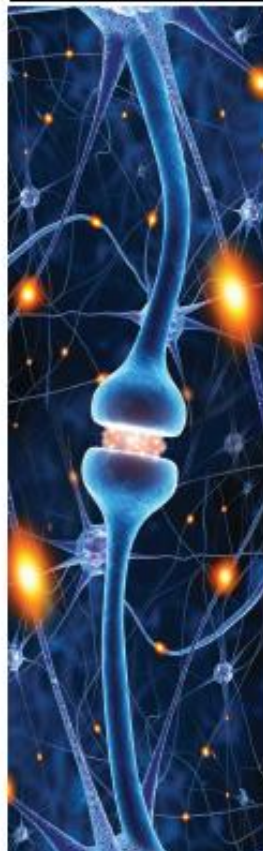
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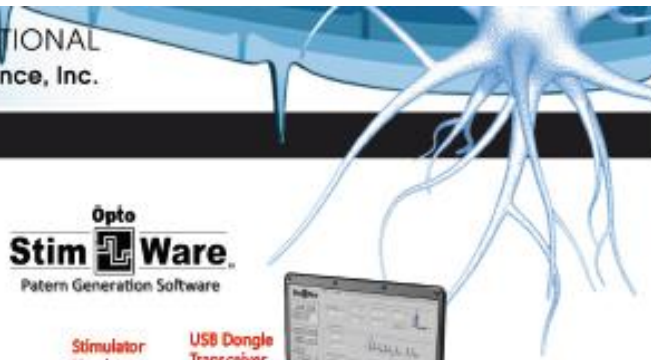
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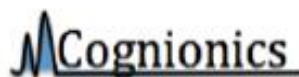
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