## Early Career Investigator Symposium

**11:00 am – 6:00 pm**

Monona Convention Center, Meeting Rooms K, L, O & P

**Symposium Organizers:**

- **Brett Colson**
  - University of Arizona

- **Bertrand Tanner**
  - Washington State University

- **Anthony Cammarato**
  - Johns Hopkins University

- **Brandon Biesiadecki**
  - The Ohio State University

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:00 am</td>
<td>Welcome</td>
</tr>
<tr>
<td>11:05</td>
<td><strong>Aditi Madan</strong>, Johns Hopkins University</td>
</tr>
<tr>
<td>11:15</td>
<td><strong>Genaro Ramirez-Corra</strong>, Johns Hopkins University</td>
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<tr>
<td>11:25</td>
<td><strong>Melissa Lynn</strong>, University of Arizona</td>
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<tr>
<td>11:35</td>
<td><strong>Sunil Yadav</strong>, University of Miami</td>
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<tr>
<td>11:45</td>
<td><strong>Lorenzo Sewanan</strong>, Yale University</td>
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<tr>
<td>11:55 – 12:00</td>
<td>5 minute Break</td>
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<tr>
<td>12:00</td>
<td><strong>Wei Guo</strong>, University of Wyoming</td>
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<tr>
<td>12:10</td>
<td><strong>D. Brian Foster</strong>, Johns Hopkins University</td>
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<tr>
<td>12:20</td>
<td><strong>Maria Papadaki</strong>, Loyola University Chicago</td>
</tr>
</tbody>
</table>

**Trainee Group 1: Cardiomyopathies and Heart Failure**

-- 11:05 am – 12:30 pm

(8 talks; presenters will speak for 8 minutes each with a 2 minute Q&A)

**12:30 – 1:30 pm**

**Lunch (Ballroom C) – Gourmet Deli Buffet**
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 1:30 – 2:15 pm | **Senior PI Presentation:**
<p>|               | <em>Michael Geeves</em>, University of Kent                                 |
|               | “Lessons Learnt From a Life with Actin and Myosin”                    |
| 2:15 – 2:25 pm | 10 minute Break                                                       |
| 2:25 – 3:00 pm | <strong>Senior PI and Junior PI Q&amp;A Career Advice Session</strong>                 |
|               | <em>Michael Geeves</em>, Professor, University of Kent                       |
|               | <em>Samantha Harris</em>, Associate Professor, University of Arizona         |
|               | <em>Stuart Campbell</em>, Associate Professor, Yale University               |
|               | <em>Suman Nag</em>, Lead Scientist II, MyoKardia Inc.                        |
| 3:00 – 3:15 pm | 15 minute Break (snacks available)                                    |
| 3:15 – 4:05 pm | <strong>Trainee Group 2: Regulatory Proteins</strong> -- 3:15 – 4:05 pm (5 talks; presenters will speak for 8 minutes each with a 2 minute Q&amp;A) |
| 3:15         | <em>Peter Hwang</em>, University of Alberta                                  |
| 3:25         | <em>Elizabeth Brundage</em>, The Ohio State University                       |
| 3:35         | <em>Anthony Baldo</em>, University of Arizona                                |
| 3:45         | <em>Steffen Lindert</em>, The Ohio State University                          |
| 3:55         | <em>Peter Kekenes-Huskey</em>, University of Kentucky                        |
| 4:05 – 4:15 pm | 10 minute Break                                                       |
| 4:15 – 5:30 pm | <strong>Trainee Group 3: Regulatory Proteins</strong> -- 4:15 – 5:30 pm (7 talks; presenters will speak for 8 minutes each with a 2 minute Q&amp;A) |
| 4:15         | <em>Brett Colson</em>, University of Arizona                                 |
| 4:25         | <em>Darshan Trivedi</em>, Stanford University                               |
| 4:35         | <em>Bert Tanner</em>, Washington State University                            |
| 4:45         | <em>Brianna Schick</em>, Wayne State University                              |
| 4:55 – 5:00  | 5 minute Break                                                        |
| 5:00         | <em>Frank Li</em>, University of Arizona                                    |
| 5:10         | <em>Kathleen Woulfe</em>, University of Colorado-Denver                      |
| 5:20         | <em>Zachery Gregorich</em>, University of Wisconsin-Madison                  |
| 5:00 – 6:30 pm | Conference Registration                                              |
| 6:30 – 8:00 pm | Welcome Reception                                                     |
| 8:00 – 8:30 pm | Poster set up for Sunday Poster Session                               |</p>
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30–8:30 am</td>
<td>Conference Registration</td>
<td>Counter 4</td>
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<td></td>
<td>Continental Breakfast</td>
<td>Community Terrace</td>
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<tr>
<td>8:45 am – 9:15 am</td>
<td><strong>Welcome</strong></td>
<td>Monona Convention Center Lecture Hall</td>
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<tr>
<td>9:15 am – 10:00 am</td>
<td><strong>Plenary Lecture</strong></td>
<td>Monona Convention Center Lecture Hall</td>
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<tr>
<td><strong>Malcolm Irving</strong></td>
<td>King’s College London</td>
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<tr>
<td></td>
<td><em>Regulation of contraction by the thick filaments in skeletal muscle and in the heart</em></td>
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<tr>
<td>10:00 am – 12:30 pm</td>
<td><strong>Oral Session I</strong></td>
<td>Monona Convention Center Lecture Hall</td>
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<tr>
<td><strong>Regulation by Accessory Proteins</strong></td>
<td>J.-P. Jin, Wayne State University</td>
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<tr>
<td>10:00 – 10:25 am</td>
<td><strong>Martina Krüger</strong> Heinrich-Heine University Düsseldorf</td>
<td><em>Rapid and temporary modification of titin properties after myocardial ischemia/reperfusion</em></td>
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<tr>
<td>10:30 – 10:55 am</td>
<td><strong>Richard Schulz</strong> University of Alberta</td>
<td><em>Actions of matrix metalloproteinate-2 in targeting titin in oxidative-stress associated cardiomyopathies</em></td>
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<tr>
<td>11:00 – 11:25 am</td>
<td><strong>J.-P. Jin</strong> Wayne State University</td>
<td><em>Sensitive adaptation of Z disk proteins to diastolic dysfunction of the heart</em></td>
</tr>
<tr>
<td>11:30 – 11:55 am</td>
<td><strong>Carl W. Tong</strong> Texas A&amp;M University</td>
<td><em>Cardiac myosin binding protein-C modulation of immune system: Diastolic dysfunction occurs independent of fibrosis</em></td>
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### Usual and unusual proteins that contribute to (visco)elasticity and their physiologic implications

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Details</th>
<th>Location</th>
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<tbody>
<tr>
<td>12:30 – 1:30 pm</td>
<td>Lunch – Bucky’s Tailgate Buffet</td>
<td>Monona Convention Center Community Terrace</td>
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<tr>
<td>1:30 – 4:30 pm</td>
<td><strong>Sunday Poster Session</strong></td>
<td>Monona Convention Center Rooms K - R</td>
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<td>✤ Length Dependent Force Development</td>
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<td>✤ Models of Contraction/Regulation</td>
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<td>✤ Thick/Thin Filament Regulation in Striated Muscle</td>
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<td>✤ Thick/Thin Filament Structure</td>
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<tr>
<td>4:30 – 5:30 pm</td>
<td>Poster Session Happy Hour</td>
<td>Rooms K - R</td>
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<td>6:30 – 8:30 pm</td>
<td><strong>Dinner</strong></td>
<td><strong>Tripp Commons</strong></td>
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<td><em>(No additional cost to attendees; reservation required through registration process)</em></td>
<td>UW Memorial Union 800 Langdon Street</td>
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### MONDAY, May 21, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>7:30 am – 8:30 am</td>
<td>Continental Breakfast</td>
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<td>8:30 am – 9:15 am</td>
<td>Plenary Lecture: Aikaterini Kontrogianni-Konstantopoulos (University of Maryland)</td>
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<td><em>Myosin Binding Protein-C Slow in Health and Disease</em></td>
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<tr>
<td>8:30 am – 9:15 am</td>
<td>Monona Convention Center, Lecture Hall</td>
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<tr>
<td>9:15 am – 11:45 am</td>
<td>Oral Session II: Thin Filament Regulation</td>
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<td></td>
<td>Corrado Poggesi (University of Florence) Moderator</td>
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<tr>
<td>9:15 am – 9:40 am</td>
<td>Timothy McKinsey (University of Colorado Denver)</td>
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<td><em>Targeting myofibrillar protein acetylation to treat diastolic dysfunction</em></td>
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<tr>
<td>9:45 am – 10:10 am</td>
<td>Jil Tardiff (University of Arizona)</td>
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<td><em>Incorporating flexibility and dynamics as triggers for cardiomyopathic remodeling in HCM</em></td>
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<tr>
<td>10:15 am – 10:40 am</td>
<td>Chris Ward (University of Maryland)</td>
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<td><em>Microtubule mechanotransducers in the sarcomere</em></td>
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<tr>
<td>10:45 am – 11:10 am</td>
<td>Paul Janssen (The Ohio State University)</td>
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<td></td>
<td><em>Contraction-relaxation coupling in health and disease</em></td>
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<tr>
<td>11:15 am – 11:40 am</td>
<td>Corrado Poggesi (University of Florence)</td>
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<td></td>
<td><em>Thin filament proteins and HCM mutations: sarcomeric effects of the mutations versus adverse cardiomyocyte remodeling</em></td>
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<td>Time</td>
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<tr>
<td>12:00 – 1:00 pm</td>
<td>Lunch – Mediterranean Buffet</td>
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<tr>
<td>11:45 – 12:15 pm</td>
<td>Poster take down from Sunday Poster Session</td>
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<tr>
<td>12:30 – 1:00 pm</td>
<td>Poster set up for Monday Poster Session</td>
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### Oral Session III

**Thick Filament Regulation**

**1:00 pm – 3:30 pm**
Monona Convention Center, Lecture Hall

**Samantha Harris**
University of Arizona
Moderator

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1:00 – 1:25 pm</td>
<td>Wenji Dong</td>
<td>Washington State University</td>
<td><em>Length-dependent effects of titin-based tension on troponin regulation and crossbridge kinetics</em></td>
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<td></td>
<td>Christine Cremo</td>
<td>University of Nevada Reno</td>
<td><em>Skeletal, cardiac, and smooth muscle myosin filaments moving on actin</em></td>
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<td></td>
<td>Samantha Harris</td>
<td>University of Arizona</td>
<td><em>Spying on cMyBP-C: A cut and paste approach for replacement of cMyBP-C N’-terminal domains in sarcomeres in situ</em></td>
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<td></td>
<td>Danuta Szczesna-Cordary</td>
<td>University of Miami</td>
<td><em>Myosin light chains and their heavy roles</em></td>
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<td></td>
<td>James W. McNamara</td>
<td>University of Cincinnati</td>
<td><em>Cardiac myosin binding protein-C modulates the super-relaxed state</em></td>
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<tr>
<td>3:30 – 6:30 pm</td>
<td><strong>Monday Poster Session</strong></td>
<td>Monona Convention Center Rooms K - R</td>
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<td></td>
<td>▶ Determinants of Relaxation</td>
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<td>▶ Cardiomyopathies</td>
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<td>▶ Elastic Proteins of Muscle</td>
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<td>▶ Regulation &amp; Regulatory Signaling Networks</td>
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<td>▶ Myofilament Contribution to Human Diseases</td>
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<td>6:30 – 7:30 pm</td>
<td>Poster Session Happy Hour</td>
<td>Rooms K - R</td>
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<tr>
<td>7:30 pm</td>
<td>Dinner on your own</td>
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## TUESDAY, May 22, 2018

<table>
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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:30 am – 8:30 am</td>
<td>Continental Breakfast</td>
<td>Monona Convention Center Community Terrace</td>
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### Plenary Lecture

**Kenneth Taylor**  
Florida State University  
*Is formation of the interacting heads motif coupled to the thick filament backbone structure?*

8:30 am – 9:15 am  
Monona Convention Center, Lecture Hall

### Oral Session IV

**Sarcomeric Proteins and their Effects**

9:15 am – 11:45 am  
Monona Convention Center, Lecture Hall

**Carol Gregorio**  
University of Arizona  
Moderator

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>9:15 – 9:40 am</td>
<td>Maegan Ackermann Borzok</td>
<td>The Ohio State University</td>
<td><em>Defining a novel mechanism of arrhythmogenic cardiomyopathy-linked variants of desmoplakin</em></td>
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<tr>
<td>9:45 – 10:10 am</td>
<td>Roberto Dominguez</td>
<td>University of Pennsylvania</td>
<td><em>What is going on at the pointed end of actin filaments in sarcomeres?</em></td>
</tr>
<tr>
<td>10:15 – 10:40 am</td>
<td>Balazs Kiss</td>
<td>University of Arizona</td>
<td><em>Experimentally varying the number of super-repeats in the NEB gene of the mouse: assessing the role of nebulin in thin filament length regulation</em></td>
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<tr>
<td>10:45 – 11:10 am</td>
<td>Thomas Iskratsch</td>
<td>King’s College London</td>
<td><em>Cardiomyocytes sense matrix rigidity through a combination of muscle and non-muscle myosin contractions</em></td>
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<tr>
<td>11:15 – 11:40 am</td>
<td>Mert Colpan</td>
<td>University of Arizona</td>
<td><em>Regulation of actin dynamics at thin filament pointed ends in the heart</em></td>
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<td>Time</td>
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<tr>
<td>12:00 – 1:00 pm</td>
<td>Lunch – Heart of Italy Buffet</td>
<td>Monona Convention Center</td>
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<td>Community Terrace</td>
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<td>11:45 – 1:30 pm</td>
<td>Poster take down from Monday Poster Session</td>
<td>Rooms K – R</td>
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<td></td>
<td><strong>Oral Session V</strong></td>
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<td><strong>M-band Proteins</strong></td>
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<td><strong>1:30 pm – 4:00 pm</strong></td>
<td>Monona Convention Center, Lecture Hall</td>
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<tr>
<td><strong>Mathias Gautel</strong></td>
<td>King’s College London</td>
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<tr>
<td><strong>Moderator</strong></td>
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<tr>
<td>1:30 – 1:55 pm</td>
<td><strong>Stephan Lange</strong></td>
<td>University of California San Diego</td>
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<td>Animal models of M-band protein interactions</td>
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<td>2:00 – 2:25 pm</td>
<td><strong>Guy Benian</strong></td>
<td>Emory University</td>
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<td>Nematode M-band proteins</td>
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<td>2:30 – 2:55 pm</td>
<td><strong>Matthias Wilmanns</strong></td>
<td>European Molecular Biology Laboratory</td>
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<td>Overall structure and evidence for molecular elasticity in the myomesin filament</td>
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<td>3:00 – 3:25 pm</td>
<td><strong>Roberto Steiner</strong></td>
<td>King’s College London</td>
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<td></td>
<td>Structural biology of M-band protein complexes</td>
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<tr>
<td>3:30 – 3:55 pm</td>
<td><strong>Mathias Gautel</strong></td>
<td>King’s College London</td>
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<td>TBD</td>
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<tr>
<td>6:00 – 8:00 pm</td>
<td><strong>Night of Networking</strong></td>
<td>Top of the Park Park Hotel</td>
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<td>(No additional cost to attendees; reservation required through registration process)</td>
<td>22 S. Carroll Street</td>
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<td>Early Career Investigator presentation awards and Top Poster awards will be presented!</td>
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<tr>
<td>8:00 am – 9:00 am</td>
<td>Continental Breakfast</td>
<td>Monona Convention Center</td>
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<td></td>
<td></td>
<td>Community Terrace</td>
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<tr>
<td>9:00 am – 9:45 am</td>
<td><strong>Plenary Lecture</strong></td>
<td>Monona Convention Center, Lecture Hall</td>
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<td></td>
<td><strong>Michael Geeves</strong></td>
<td>University of Kent</td>
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<td>Three states of the thin filament: Still relevant after 25 years?</td>
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<tr>
<td>10:00 am – 11:45 am</td>
<td>Presentations by Early Career Investigator Awardees</td>
<td>Monona Convention Center, Lecture Hall</td>
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<td></td>
<td>and Top Poster Awardees</td>
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<td>Each presenter has 5 minutes to present with 3 minutes Q&amp;A</td>
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<tr>
<td>12:00 – 1:00 pm</td>
<td>Lunch – Southwestern Buffet</td>
<td>Monona Convention Center</td>
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<tr>
<td></td>
<td>Wrap up</td>
<td>Community Terrace</td>
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