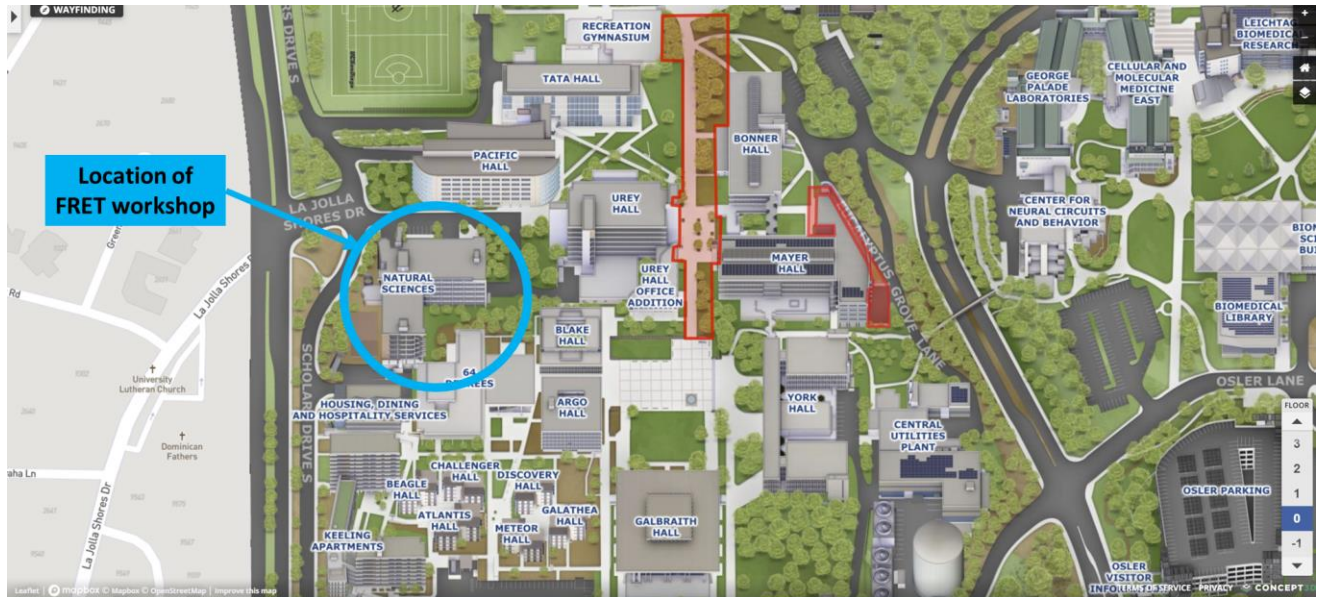


## FRET WORKSHOP - MAF Conference (Satellite)

<http://maf2019.ucsd.edu> (August 20-24, 2019)

**Time:** Monday August 19 – Tuesday August 20

**Location:** USCD Auditorium: Natural Science Building: NSB 1205



For a searchable map of campus, click here: <https://maps.ucsd.edu/map/default.htm>

**Program:** The workshop program will be based on a bottom-up approach and catered to the specific wishes of the attendees. Both expert and novice users of FRET are invited. Topics include:

- Dissemination of theory, procedures and tools for quantitative fluorescence measurements
- Planning of community-driven experimental challenges with fluorescence spectroscopy
- Planning of community-driven development of joint measurement and analysis tools

<b>Monday 8/19/2019</b>	<b>Topic</b>	<b>Room</b>
<b>13:00-13:30</b>	<b>Registration</b>	
<b>13:30-15:00</b>	<b>Session 1: Quantitative FRET studies in life sciences</b>	NSB 1205
	<i>Welcome (10 min)</i> (Hugo Sanabria, Clemson University) History of FRET (Claus Seidel, HHU D & Don C. Lamb, LMU Munich) Introduction: Theory and implementations (Ashok Deniz, Scripps)	
<b>15:00- 15:30</b>	<i>Break</i>	
<b>15:30-16:30</b>	<b>Breakout Session 1: FRET Beginners 1 (Practical aspects of measuring FRET, Hardware implementation)</b>	NSB 1205
<b>16:30-17:50</b>	<b>Session 2: FRET in Images*</b>	NSB 1205
	FRET data and analysis (Ammasi Periasamy, University of Virginia) Number and Brightness Analysis (Don C. Lamb, LMU Munich)	
<b>17:50-18:20</b>	<i>Break</i>	
<b>18:20-19:20</b>	<b>Break out Session 2: FRET beginners 2 (Practical aspects of analyzing FRET Software Usage)</b>	NSB 1205
<b>19:20-20:00</b>	<i>Transfer to Restaurant</i>	
<b>20:00-22:00</b>	<b>Discussion Groups 1: FRET Community (Location to be announced) and Social</b>	
	<b>Moderator (Hugo Sanabria, Clemson University) 10 min introduction of activity</b> , 30 min discussion in small groups (max 5 groups), 30 min summary and Q&A) <ul style="list-style-type: none"> <li>- Software</li> <li>- Resources</li> <li>- Events</li> <li>- Website</li> <li>- Email List</li> </ul>	
<b>* 30 min presentation with 10 min Q&amp;A</b>		

<b>Tuesday 8/20/2019</b>	<b>Topic</b>	
<b>8:30- 9:30</b>	<b>Discussion Groups 2: FRET Challenges</b>	<b>NSB 1205</b>
	<b>Moderator (Hugo Sanabria, Clemson University)</b> 30 min discussion in small groups (max 5 groups), 30 min summary and Q&A <ul style="list-style-type: none"> <li>- KinSoft challenge</li> <li>- Protein System</li> <li>- Dynamic System</li> <li>- FRET dyes</li> <li>- Crowd-FRET with single system</li> </ul>	
<b>9:30-12:10</b>	<b>Session 3: Dynamics in FRET Measurements*</b>	<b>NSB 1205</b>
	<b>Kinetics in TIRF (Anders Barth, HHU Düsseldorf)</b> (100 ms – 10s seconds) <b>Image Correlation and Pair Correlations (Michelle Digman, UCI)</b> Images <b>Kinetics in burst analysis (Timothy D. Craggs, Sheffield University)</b> (1ms – 100 ms) <b>FRET-FCS (Hugo Sanabria)</b> Fast (ns - 1ms)	
<b>12:10-13:30</b>	<i>Brown bag lunch</i>	
<b>13:30-14:30</b>	<b>FRET Community Organization Meeting</b>	<b>NSB 1205</b>
	<b>Moderator (Claus Seidel, HHU Düsseldorf)</b> 30 min discussion in small groups (max 5 groups), 30 min summary and Q&A <ul style="list-style-type: none"> <li>- Candidates</li> <li>- Vision</li> <li>- Direction</li> <li>- Concerns</li> <li>- Elections</li> </ul>	
<b>14:30-15:00</b>	<i>Break</i>	
<b>15:00-17:00</b>	<b>FRET-Examples*</b>	<b>NSB 1205</b>
	<b>FRET on Dengue Virus (Thorsten Wohland, NUS)</b> <b>FRET in nucleic Acids (Marcus Wilhelmsson, Chalmers Research)</b> <b>FRET and super-resolution (Claus Seidel, HHU Düsseldorf)</b>	
<b>18:00</b>	<b>MAF Opening</b>	
<b>* 30 min presentation with 10 min Q&amp;A</b>		