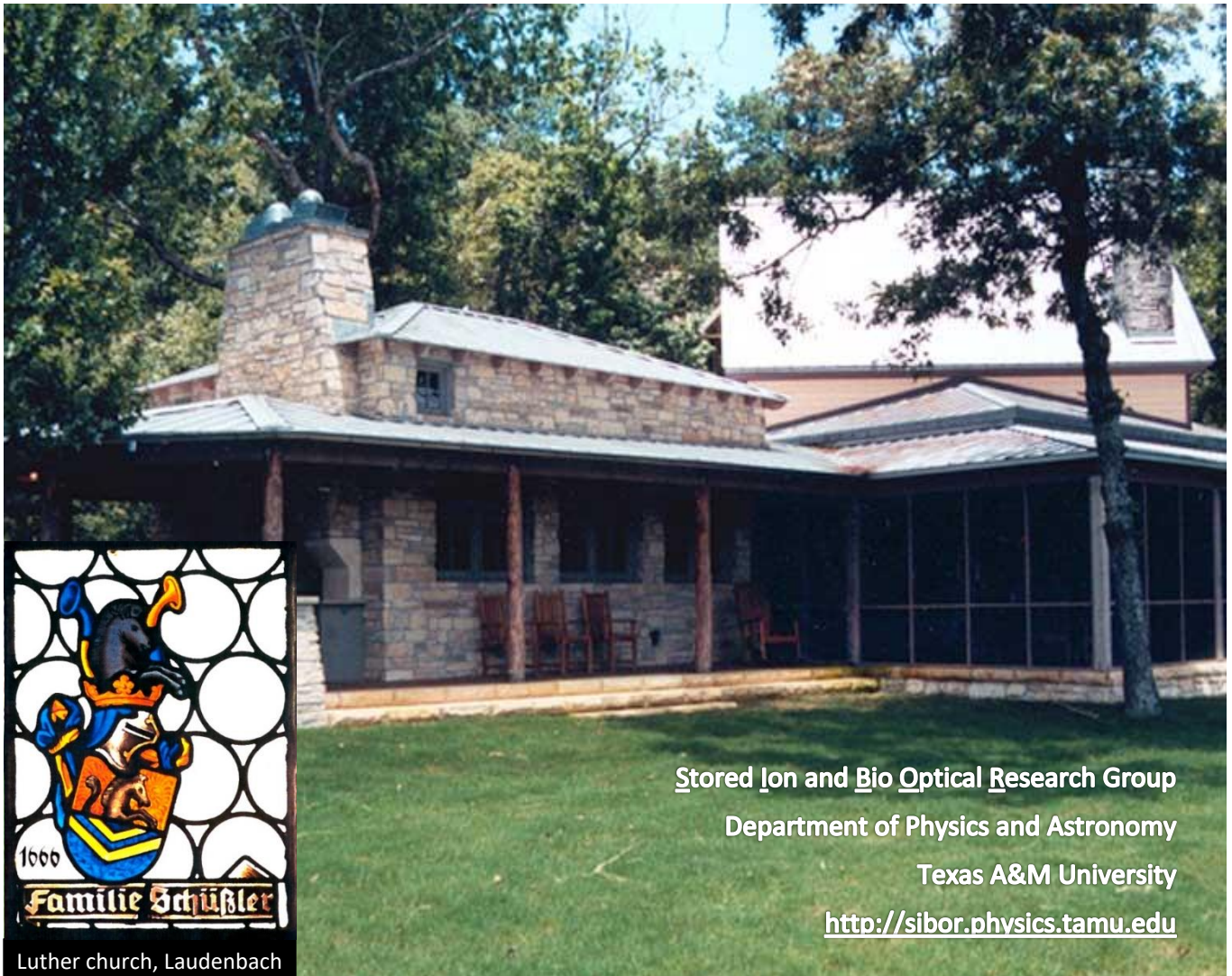


# Cook's Branch Conservancy

## SIBOR – Workshop

Friday, November 11, 2016

Program



Luther church, Laudenbach

Stored Ion and Bio Optical Research Group  
Department of Physics and Astronomy  
Texas A&M University  
<http://sibor.physics.tamu.edu>

schuessler@physics.tamu.edu  
November 11, 2016

**The SIBOR and Attosecond group of  
the Department of Physics and Astronomy  
of Texas A&M University**

**requests the pleasure of your company at  
a workshop at Cook's Branch Conservancy\***

**(Cynthia & George Mitchell Foundation)**

**on Friday, November 11, 2016**

**Please respond by November 5 , 2016**

\* 7720 149N Montgomery, TX 77316 ([map](#))  
<http://youtu.be/LJX5gFdNGjc>

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9:30 – 10:00	Arrival
<b>10:00</b>	<b>Peter McIntyre</b> , Professor and Department Head Department of Physics and Astronomy, Texas A&M University <i>High-Field Open MRI for Breast Cancer Screening</i>
<b>10:30</b>	<b>Zheng Chen</b> , Associate Professor Dept. of Biochemistry and Molecular Biology, University of Texas Health Science Center at Houston <i>Biological Clocks: There is a time for everything</i>
<b>11:00</b>	<b>John Maida</b> , Chief Optical Scientist Halliburton Houston <i>Shining Light on Texas Tea: Terabytes from Terra Firma</i>
<b>11:30</b>	<b>Anne Stiles</b> , Professor Department of Nursing, Sam Houston State University <i>Promoting Screening and Education of Rural Populations on HPV-related Cancer</i>
<b>12:00</b>	<b>James Strohaber</b> , Assistant Professor Dept. of Physics, Florida A&M University <i>Biophotonics with twisted light</i>
<b>12:30</b>	Workshop Photograph
<b>12:45</b>	Lunch
<b>14:00</b>	<b>Zohreh Schuessler</b> , Doctoral Candidate Department of Nursing, Texas Woman's University <i>Patient outcome improvement and robotic surgery</i>
<b>14:30</b>	<b>Alexandre Kolomenski</b> , Research Scientist Department of Physics and Astronomy, Texas A&M University <i>Diagnostics and monitoring of disease biomarkers in exhaled breath</i>
<b>15:00</b>	<b>Milan P Poudel</b> , Research Fellow Naval Research Laboratory, Washington DC <i>Femtosecond Stimulated Raman Spectroscopy</i>
<b>15:30</b>	<b>Feng Zhu</b> , Postdoctoral Associate Department of Physics & Astronomy, Texas A&M University <i>Probing methane in air with IR frequency combs</i>
<b>16:00</b>	<b>Alexey Akimov</b> , Assistant Professor Department of Physics and Astronomy, Texas A&M University <i>Diamond based sensors for living cells</i>
<b>16:30</b>	<b>Lifan Wang</b> , Professor Department of Physics & Astronomy, Texas A&M University <i>Bioastronomy: Search for Life</i>
<b>17:10 – 18:00</b>	Poster Session
<b>18:00 – 18:30</b>	Explore <i>Cook's Branch Conservancy</i> and find the red woodpecker
<b>18:30</b>	Dinner
<b>20:00</b>	Departure

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*We thank Sheridan Lorenz and the Cynthia & George Mitchell Foundation for hosting this workshop.*

## Posters

### Frequency Comb Vernier Image in the Near Infrared

Feng Zhu<sup>1</sup>, James Bounds<sup>1</sup>, Aysenur Bicer<sup>1</sup>, James Strohaber<sup>1</sup>, Alexandre A. Kolomenskii<sup>1</sup>, Christoph Gohle<sup>2</sup>, Mahmood Amani<sup>3</sup>, and Hans A. Schuessler<sup>1,3</sup>

1. Department of Physics and Astronomy, Texas A&M University, College Station, TX 77843, USA
2. Max-Planck-Institut für Quantenoptik, Garching 85748, Germany
3. Science Department, Texas A&M University at Qatar, Doha 23874, Qatar

### Mid-infrared Dual Frequency Comb Spectrometer for the Detection of Greenhouse Gases in Ambient Air

Feng Zhu<sup>1</sup>, Alexandre Kolomenskii<sup>1</sup>, Donald Corona<sup>1</sup>, Jinbao Xia<sup>1</sup>, Hans Schuessler<sup>1</sup>, James Strohaber<sup>2</sup>, Lewis Johnson<sup>2</sup>

1. Department of Physics and Astronomy, Texas A&M University, College Station TX, USA
2. Department of Physics, Florida A & M University, Tallahassee, FL, USA

### Imaging Of Small Objects with XUV Radiation

M. Sayrac<sup>1</sup>, A. A. Kolomenskii<sup>1</sup>, Y. Boran<sup>1</sup>, H. Schuessler<sup>1</sup>

1. Department of Physics and Astronomy, Texas A&M University, College Station, TX 77843, USA

### Intensity dependences and angular distributions of acetonitrile fragments under irradiation by femtosecond pulses

Y. Boran<sup>1</sup>, A.A. Kolomenskii<sup>1</sup>, M. Sayrac<sup>1</sup>, H.A. Schuessler<sup>1</sup>, N. Kaya<sup>2</sup>, J. Strohaber<sup>3</sup>

1. Department of Physics and Astronomy, Texas A&M University, College Station, TX 77843, USA
2. Science Department, Texas A&M University at Qatar, Doha 23874, Qatar
3. Department of Physics, Florida A & M University, Tallahassee, FL, USA

### Cavity ring-down spectroscopy of methane and carbon dioxide using a DFB diode laser in the near IR

Aysenur Bicer, Feng Zhu, Alexandre Kolomenskii, Jinbao Xia, Hans Schuessler

Department of Physics and Astronomy, Texas A&M University, College Station TX, USA

Research supported by:



## Directions to Cook's Branch Conservancy:

7720 149N Montgomery, TX 77316

### From College Station ([Google map](#)):

- Hwy 6 South to Hwy 105 East (at Navasota)
- 105 East to Montgomery
- Turn right (south) on 149 (S Liberty St. in Montgomery)
- Go 6.7 Miles to Cook's Branch Conservancy entrance
- Turn Left into Cook's Branch Conservancy

*There is a sign at Cook's Branch Conservancy, but it is easy to miss.  
Follow posted signs.*

