

Laboratory Visitors and Their Projects (as of 9/09)

- Professor Karen Peterson, University of Rhode Island, 7/4/93, **(CO)<sub>2</sub>**  
Professor Jim LoBue, Ursinus College (now Georgia Southern University), 7/5 - 7/9/93,  
further **conformations of dipropyl ether**  
Professor Robert Bohn and Lou Qi, University of Connecticut, 7/19 - 7/27/93,  
**methyl ethyl nitrosamine**  
Dr. Dan Kohn, Department of Chemistry, Harvard University, 8/2 - 8/6/93, various radicals  
including **CF<sub>3</sub>** and **H<sub>2</sub>CCCH**, using Peter Chen's flash pyrolysis source  
Professor Kimberley Grant, College of St Elizabeth, 8/9 - 8/13/93, **PF<sub>3</sub>**, **HCl** and **NF<sub>3</sub>**, **HCl**  
Dr. Mike McCarthy, Center for Astrophysics, Harvard Smithsonian, 8/17 - 8/20/93, various  
radicals including **H<sub>2</sub>CCCH**, **HNCN**, **SO**, and **HCCN**  
Brian Bean, Amherst College, (Brian is an undergraduate student of Professor Mark Marshall,  
he spent the summer in the lab as a NECUSE student and participated in all the projects,  
his own personal project was:) **HBr OCS**  
Professor Robert Bohn, UCONN, 12/13 - 12/15/93, **3,6 dichloropyridazine**  
Professor Jim LoBue, Georgia Southern University, 12/20/93 - 12/24/93, **CO<sub>2</sub>**, **C<sub>6</sub>H<sub>6</sub>**  
Brian Bean, Amherst, 1/3 - 1/7/94, to continue work on **HBr OCS**  
Professor Kimberley Grant, College of St Elizabeth, 1/10 - 1/14/94, **(PF<sub>3</sub>)<sub>2</sub>**  
Professor Karen Peterson, University of Rhode Island, 5/13, 17, 19, 25/94, **NO H<sub>2</sub>O**  
Professor Robert Bohn, University of Connecticut, 5/31 - 6/3/94, **methyl ethyl formamide**,  
**CH<sub>3</sub>(NCHO)CH<sub>2</sub>CH<sub>3</sub>**  
Professor Karen Peterson, University of Rhode Island, 6/7, 8, 22, 24/94, **NO H<sub>2</sub>O**  
Professor Kimberley Grant, College of St Elizabeth, 8/1 - 8/5/94, **Ar NF<sub>3</sub>**  
Professor Jim LoBue, Georgia Southern University, 8/8 - 8/12/94, **CO<sub>2</sub>**, **C<sub>6</sub>H<sub>6</sub>**  
Professor Robert Bohn, University of Connecticut, 8/18 - 8/19/94, **3-hexyn-2-one**,  
**CH<sub>3</sub>CH<sub>2</sub>C≡C(CO)CH<sub>3</sub>**  
Professor Wallace Pringle and David McCamant, Wesleyan University, 8/29 - 9/2/94,  
**Ar (CH<sub>2</sub>)<sub>3</sub>** (Argon cyclopropane)  
Professor Wallace Pringle and David McCamant, Wesleyan University, 9/19 - 9/23/94,  
**Ar (CH<sub>2</sub>)<sub>3</sub>S** (Argon trimethylene sulfide)  
Dr. Mike McCarthy and Dr. Michael Travers, Center for Astrophysics, Harvard Smithsonian,  
12/1 - 12/2/94, <sup>13</sup>C substituted · **C=C-C≡C-H** radical  
Professor Wallace Pringle and David McCamant, Wesleyan University, 1/13/95, **Ar (CH<sub>2</sub>)<sub>3</sub>S**  
Professor Wallace Pringle and Ranjith Premasiri, Wesleyan University, 1/14 - 1/15/95,  
**Ar (CH<sub>2</sub>)<sub>3</sub>O** (Argon trimethylene oxide)  
Professor Robert Bohn, University of Connecticut, 1/16 - 1/20/95, **methyl ethyl formamide**,  
**CH<sub>3</sub>(NCHO)CH<sub>2</sub>CH<sub>3</sub>**  
Professor Wallace Pringle, David McCamant, Ranjith Premasiri, Wesleyan University, 2/13 -  
2/24/95, **Ar (CH<sub>2</sub>)<sub>3</sub>S** and **Ar (CH<sub>2</sub>)<sub>3</sub>O**  
*{At this point, Professor Pringle and his students, who are just down the hall from the SNEMC  
lab, become such frequent spectrometer users that individual visits and projects are no longer  
noted on this list}*  
Professor Robert Bohn, University of Connecticut, 3/20 - 3/21/95, **methyl ethyl formamide**,  
**CH<sub>3</sub>(NCHO)CH<sub>2</sub>CH<sub>3</sub>**  
Dr. Michael Travers, Harvard Smithsonian Center for Astrophysics, 4/27 - 4/28/95,  
<sup>13</sup>C isotopomers of **:C=C=C=CH<sub>2</sub>**  
Dr. Mike McCarthy, Harvard Smithsonian Center for Astrophysics, 5/4/95, measurement  
of the Zeeman effect in · **C≡C-C≡C-H**  
Professor Robert Bohn, University of Connecticut, 5/16 - 5/17/95, **methyl ethyl formamide**,  
**CH<sub>3</sub>(NCHO)CH<sub>2</sub>CH<sub>3</sub>**  
Professor Karen Peterson, San Diego State University, 6/21 - 6/23/95, **NO H<sub>2</sub>O**  
Dr. Michael Travers, Harvard Smithsonian Center for Astrophysics, 7/6/95, **:C=C=C=CD<sub>2</sub>**

Professor Kimberley Grant, College of St Elizabeth, 7/10 - 7/14/95, **Ar NF<sub>3</sub>**  
 Dr. Michael Travers, Dr. Mike McCarthy, Peter Kalmus, Harvard Smithsonian Center for Astrophysics, 8/8/95 **H-C<sub>3</sub>-C≡C-C≡C-H**  
 Dr. Michael Travers, Harvard Smithsonian Center for Astrophysics, 8/22 - 8/23/95 deuteration of **C<sub>7</sub>H<sub>2</sub>**  
 Professor Jim LoBue, Georgia Southern University, 8/28 - 9/1/95, **Ar (CH<sub>3</sub>)<sub>2</sub>S**  
 Dr. Jens-Uwe Grabow, Kiel University and National Institute of Standards and Technology, 10/2/95 - 10/8/95, Install and set up automation software and equipment for the spectrometer.  
 Dr. Michael Travers, Harvard Smithsonian Center for Astrophysics, 11/1/95 test of K rotational temperature in the discharge using **CF<sub>3</sub>C≡C-H**  
 Dr. Michael Travers, Dr. Mike McCarthy, Harvard Smithsonian Center for Astrophysics, 3/4/96 (tentative), scans for **HC<sub>11</sub>N**  
 Professor Jim LoBue and student, Georgia Southern University, 3/19 - 3/22/96, **Ar (CH<sub>3</sub>)<sub>2</sub>S**  
 Professor Penny Snetsinger, Sacred Heart University, 7/8 - 7/24/96, **HCl H-C≡C-C≡C-H**  
 Professor Robert Bohn, University of Connecticut, 7/29 - 8/2/96, multiple conformations of **butyl cyanide\*** and **n-propyl benzaldehyde**, internal rotation in **3-hexyn-2-one** and **hexadienal**  
 Dr. Mark Nimlos, National Renewable Energy Laboratory, Golden, Colorado, 10/7 -10/8/96, phenyl radical, **C<sub>6</sub>H<sub>5</sub>**  
 Professor Robert Bohn and student, University of Connecticut, 12/17 -12/19/96, **methyl propyl formamide**, (CH<sub>3</sub>)(C<sub>3</sub>H<sub>7</sub>)NCHO.  
 Dr. Wei Chen, Harvard Smithsonian Center for Astrophysics, 12/23, 12/27, 12/30-31/96, **H<sub>2</sub>C<sub>4</sub><sup>14</sup>N** deep scans from methyl cyano acetylene precursor.  
 Professor Robert Bohn, University of Connecticut, 1/6 - 1/10/97, **n-propyl benzaldehyde**, CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>(C<sub>6</sub>H<sub>4</sub>)CHO, and internal rotation in **t-butyl benzene**, C<sub>6</sub>H<sub>5</sub>C(CH<sub>3</sub>)<sub>3</sub>  
 Dr. Wei Chen, Harvard Smithsonian Center for Astrophysics, 1/11 - 1/13/97, search for **H<sub>2</sub>C<sub>5</sub>O**.  
 Dr. Rick Suenram, National Institute of Standards and Technology, 1/31/97, visit to observe our production methods of radicals using the pulsed high voltage source, test on **Ar OH**.  
 Professor Robert Bohn and David Sedich, University of Connecticut, 3/17 - 3/21/97, **4-t-butyl pyridine**, (CH<sub>3</sub>)<sub>3</sub>C-C<sub>5</sub>H<sub>4</sub>N, and **2-pentynal**, CHOCCCH<sub>2</sub>CH<sub>3</sub>.  
 Dr. Wei Chen, Harvard Smithsonian Center for Astrophysics, 4/29 - 5/2/97, searches for **H<sub>2</sub>C<sub>6</sub>N** using methyl cyano acetylene as a precursor.  
 Professor Robert Bohn, University of Connecticut, 5/19 - 5/25/97, **3-phenyl-2-propynal**, C<sub>6</sub>H<sub>5</sub>CCCHO, and **N,N-diethyl formamide**, (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NCHO  
 Professor Karen Peterson, San Diego State University, 8/2 - 8/6/97, **H<sub>2</sub>O (NO)<sub>2</sub>**  
 Dr. Wei Chen, Harvard Smithsonian Center for Astrophysics, 8/11 - 8/12/97, **sensitivity measurements**  
 Professor Jim LoBue, Georgia Southern University, 8/13 - 8/15/97, **Ar (CH<sub>3</sub>)<sub>2</sub>S**  
 Dr. Wei Chen\*, Harvard Smithsonian Center for Astrophysics, 9/8 - 9/12/97, searches for **H<sub>2</sub>C<sub>6</sub>N** and **H<sub>2</sub>C<sub>5</sub>H**  
 Dr. Wei Chen\*, Harvard Smithsonian Center for Astrophysics, 10/6 - 10/10/97, searches for **H<sub>2</sub>C<sub>5</sub>H, H<sub>2</sub>C-C≡C-C≡C-H**, 2,4-pentadiynyl  
 Dr. Angela Hight Walker\*\*, National Institute of Standards and Technology, 10/20 - 10/24/97, visit for the purposes of working on fitting the spectrum of O<sub>2</sub> SO<sub>2</sub> using the "Pickett" programs for this inverting spin triplet complex  
 Professor Robert Bohn, University of Connecticut, 1/5 - 1/11/98, **methyl-ethyl-formamide**, CH<sub>3</sub>(NCHO)C<sub>2</sub>H<sub>5</sub>; **ethyl pentafluoro propionate**, CH<sub>3</sub>CH<sub>2</sub>O(CO)CF<sub>2</sub>CF<sub>3</sub>; **ethyl heptafluoro butyrate**, CH<sub>3</sub>CH<sub>2</sub>O(CO)CF<sub>2</sub>CF<sub>2</sub>CF<sub>3</sub>  
 Dr. Wei Chen\*, Harvard Smithsonian Center for Astrophysics, 1/12 - 1/15, 1/26 - 1/30/98 searches for **H<sub>2</sub>C<sub>5</sub>H, H<sub>2</sub>C-C≡C-C≡C-H**, 2,4-pentadiynyl  
 Professor Jim LoBue, and an undergraduate student of his, James Thorton,

Georgia Southern University, 3/24 - 3/30/98, **Ar (CH<sub>3</sub>)<sub>2</sub><sup>34</sup>S**

Dr. Wei Chen\*, Harvard Smithsonian Center for Astrophysics, 4/27 - 4/30/98, searches for **H<sub>2</sub>C<sub>7</sub>H**, **H<sub>2</sub>C-C≡C-C≡C-C≡C-H**

Professor Robert Bohn and Colleen Coulter (grad student), University of Connecticut, 5/11 5/11 - 5/15/98, **methyl thioformate**, CHOSCH<sub>3</sub>, **diethyl formamide**, C<sub>2</sub>H<sub>5</sub>(NCHO)C<sub>2</sub>H<sub>5</sub>, and **2-pentynal**, CHOCCCH<sub>2</sub>CH<sub>3</sub>.

Professor Robert Bohn, Colleen Coulter<sup>1</sup>, Dorothy Bancroft<sup>2</sup>, University of Connecticut, 6/4 - 6/5/98, **2-pentynal**, CHOCCCH<sub>2</sub>CH<sub>3</sub>.

Dr. Jens-Uwe Grabow, Kiel University, 6/24/98, upgrade spectrometer.

Professor Robert Bohn, Colleen Coulter, University of Connecticut, 8/24 - 8/28/98, **2-pentynal**, CHOCCCH<sub>2</sub>CH<sub>3</sub>, and **methyl thioformate**, CHOSCH<sub>3</sub>

Professor Robert Bohn, Colleen Coulter, University of Connecticut, 11/24/98, **methyl thioformate**, CHOSCH<sub>3</sub>

Professor Robert Bohn, Colleen Coulter, University of Connecticut, 1/7 - 1/8/99, **methyl thioformate**, CHOSCH<sub>3</sub>

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, Colleen Coulter, University of Connecticut, 2/11 - 2/13/99, **butylacetylene**, CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C≡CH

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 5/11 - 5/13/99, four conformations of **butylacetylene**, CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C≡CH

Professor Robert Bohn, Colleen Coulter<sup>1</sup>, University of Connecticut, 1/18 - 1/20/99, **cyclopropyl benzene**, c-C<sub>3</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>

Professor Jim LoBue, Georgia Southern University, 6/28 - 7/3/99, **Ar (CH<sub>3</sub>)<sub>2</sub>S**

Professor Robert Bohn, Amanda Willis<sup>2</sup>, Karissa Atticks<sup>1</sup>, Colleen Coulter<sup>1</sup>, University of Connecticut, 7/12 - 7/16/99, **cyclopropyl benzene**, c-C<sub>3</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>, **butylacetylene**, CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C≡CH, and **allyl benzene**, CH<sub>2</sub>CHCH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 8/17 - 8/19/99, isotopomers of conformers of **butylacetylene**, CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C≡CH, (1-hexyne).

Professor Robert Bohn, Amanda Willis<sup>2</sup>, University of Connecticut, 9/2 - 9/3/99, **cyclopropyl benzene**, c-C<sub>3</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>, **1,2-difluorocyclohexane**, c-C<sub>6</sub>H<sub>10</sub>F<sub>2</sub>

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, Lauren Nedell<sup>2</sup>, University of Connecticut, 1/3 - 1/1/00, isotopomers of conformers of **butylacetylene**, CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C≡CH; **ortho-phthalaldehyde**, C<sub>6</sub>H<sub>4</sub>(CHO)<sub>2</sub>

Professor Robert Bohn, University of Connecticut; Stacy Broadbent<sup>2</sup>, Holy Cross, 6/22 - 6/23/00, **vinyl chloroformate**, ClCOOCHCH<sub>2</sub>

Professor Jim LoBue, Georgia Southern University, 7/17 - 7/21/00, **Ar (CD<sub>3</sub>)<sub>2</sub>S**

Karissa Atticks<sup>1</sup>, University of Connecticut; Stacy Broadbent<sup>2</sup>, Holy Cross, 7/24 - 7/26/00, **vinyl chloroformate**, ClCOOCHCH<sub>2</sub>

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 8/14/00, isotopomers of conformers of **butylacetylene**, (1-hexyne), CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C≡CH

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 10/27/00, isotopomers of conformers of **butylacetylene**, (1-hexyne), CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C≡CH

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 11/17 - 11/20/00, <sup>13</sup>C isotopomers of **vinyl chloroformate**, ClCOOCHCH<sub>2</sub>

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 12/19 - 12/20/00 **allyl nitrite**, O=N-O-CH<sub>2</sub>-CH=CH<sub>2</sub>

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 1/11 - 1/12/01 conformers of **1,2-difluorocyclohexane**, c-C<sub>6</sub>H<sub>10</sub>F<sub>2</sub>; **phenyl propargaldehyde**, C<sub>6</sub>H<sub>5</sub>CCCHO

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, Elizabeth Trosell<sup>2</sup>, University of Connecticut, 1/18 - 1/19/01, C<sub>6</sub>H<sub>5</sub>CCCH<sub>2</sub>CH<sub>3</sub>, **1-phenyl-1-butyne**

Professor Robert Bohn, Elizabeth Trosell<sup>2</sup>, University of Connecticut, 3/15 - 3/19/01 ax-ax conformer of **trans-1,2-difluorocyclohexane**; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>CCH, **propargylbenzene**

Professor Robert Bohn, Joanna Riccobono<sup>2a</sup>, Karissa Atticks<sup>1</sup>, University of Connecticut, 5/31 -

6/02/01, **phenyl isopropyl acetylene**,  $C_6H_5-C \equiv C-CH(CH_3)_2$ ; **propanol**,  $CH_3CH_2CH_2OH$ ; **hex-1-nitrile-5-yne**,  $HC \equiv CCH_2CH_2CH_2C \equiv N$

Dr. Mark Nimlos, National Renewable Energy Laboratory (NREL), Golden, Colorado, 6/4 - 6/8/01, **phenyl radical**,  $C_6H_5$ . Dr. Nimlos is bringing his well-engineered flash-pyrolysis (Chen) nozzle, along with his expertise in quantitative production of the phenyl radical.

Dr. Jens-Uwe Grabow, University of Hannover, 6/25 - 6/27/01, upgrade computer-spectrometer interface.

Karissa Atticks<sup>1</sup>, Joanna Riccobono<sup>2a</sup>, University of Connecticut, 7/10 - 7/12/01, **hex-1-nitrile-5-yne**,  $HC \equiv CCH_2CH_2CH_2C \equiv N$ , **1-propanol**,  $CH_3CH_2CH_2OH$

Dr. Jens-Uwe Grabow, University of Hannover, 7/24 - 8/2/01, upgrade computer-spectrometer interface.

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 9/27-9/29/01, various conformers of **hex-1-nitrile-5-yne**,  $HC \equiv CCH_2CH_2CH_2C \equiv N$

Professor Robert Bohn, John Bimler<sup>2</sup>, University of Connecticut, 11/1 - 11/2/01 ax-ax conformer of **1,2-difluorocyclohexane**;  $c-C_6H_{10}F_2$ ; isotopes of **vinyl chloroformate**,  $ClCOOCHCH_2$ .

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 1/10 - 1/12/02, **phenyl isopropyl acetylene**,  $C_6H_5-C \equiv C-CH(CH_3)_2$ , searching for the antisymmetric internal rotation state of this 2-fold rotor; **benzyl alcohol**,  $c-C_6H_5CH_2OH$ .

Professor Robert Bohn, Jon Bimler<sup>2</sup>, Karissa Atticks<sup>1</sup>, University of Connecticut, 2/8 - 2/10/02, isotopomers of **vinyl chloroformate**,  $ClCOOCHCH_2$ ; **benzyl alcohol**,  $c-C_6H_5CH_2OH$ .

Dr. Michaelen Munrow, Robin Dejesus<sup>3</sup>, Norwalk High School, 2/18 - 2/19/02, **2R- and 2S-heptane-2-ol**,  $CH_3CHOH(CH_2)_4CH_3$

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, Emily Chu<sup>2</sup>, University of Connecticut, 3/19 - 3/21/02, **phenyl isopropyl acetylene**,  $C_6H_5-C \equiv C-CH(CH_3)_2$ ; ax-ax and eq-eq conformers of **trans-1,2-difluorocyclohexane**,  $c-C_6H_{10}F_2$ ; **benzyl alcohol**,  $c-C_6H_5CH_2OH$ .

Dr. Mark Nimlos, National Renewable Energy Laboratory (NREL), Golden, Colorado, 4/12 - 4/19/02, **allyl, phenoxy, and propargyl radicals**, and non-radical pyrolysis products such as **acetic acid** from ethyl acetate. Adventures with flash-pyrolysis.

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 5/22 - 5/22/02, **benzyl alcohol**,  $c-C_6H_5CH_2OH$ .

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, Russell Giudici<sup>2b</sup>, University of Connecticut, 6/6 - 6/7/02, **benzyl alcohol**,  $c-C_6H_5CH_2OH$ .

Dr. Jens-Uwe Grabow, Deike Banser<sup>1</sup>, Melanie Schnell<sup>1</sup>, University of Hannover, 6/24 - 6/25/02, upgrade computer-spectrometer interface.

Karissa Atticks<sup>1</sup>, Russell Giudici<sup>2b</sup>, University of Connecticut, 7/11 - 7/12/02, **3-phenyl-1-propyne**, (propargylbenzene),  $c-C_6H_5CH_2C \equiv CH$ ; **hex-1-nitrile-5-yne**,  $HC \equiv CCH_2CH_2CH_2C \equiv N$

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, Russell Giudici<sup>2b</sup>, University of Connecticut, 7/31 - 8/1/02, isotopomers of **3-phenyl-1-propyne**, (propargylbenzene),  $c-C_6H_5CH_2C \equiv CH$ ; **benzyl alcohol**,  $c-C_6H_5CH_2OH$ .

Dr. Mark Nimlos, National Renewable Energy Laboratory (NREL), Golden, Colorado, 8/2 - 8/5/02, further studies with the flash-pyrolysis nozzle, **propargyl radical**  $H_2CC \equiv H$ , from propargyl bromide.

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, Russell Giudici<sup>2b</sup>, University of Connecticut, 10/10 - 10/12/02, **propanol**; **phenethanol**, (phenyl hydroxy methyl methane).

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 12/18 - 12/19/02, **deuterated benzyl alcohol**,  $c-C_6H_5CH_2OD$ .

Professor Robert Bohn, Geoff Churchill<sup>1</sup>, Karissa Atticks<sup>1</sup>, University of Connecticut, 1/14 - 1/17/03, **sec-phenethanol**,  $C_6H_5-CH(OH)(CH_3)$ ; **deuterated benzyl alcohol**,  $c-C_6H_5CH_2OD$ .

Professor Robert Bohn, Karissa Atticks<sup>1</sup>, Eric Shananahan<sup>2</sup>, University of Connecticut,

2/27 - 2/28/03, **benzyl alcohol**,  $c\text{-C}_6\text{H}_5\text{CH}_2\text{OD}$ .  
 Professor Robert Bohn, Karissa Atticks<sup>1</sup>, Geoff Churchill<sup>1</sup>, Elizabeth Trosell<sup>2</sup>, University of Connecticut, 3/17 - 3/19/03, **benzyl alcohol**,  $c\text{-C}_6\text{H}_5\text{CH}_2\text{OH}$ ; **3-phenyl-1-propyne**, (propargylbenzene),  $c\text{-C}_6\text{H}_5\text{CH}_2\text{C}\equiv\text{CH}$   
 Karissa Atticks<sup>1</sup>, University of Connecticut, 5/8 - 5/9/03, **1-hexyne**  
 Professor Robert Bohn, Karissa Atticks<sup>1</sup>, University of Connecticut, 5/14 - 5/16/03  
**isobutylbenzene**  
 Dr. Mark Nimlos, National Renewable Energy Laboratory (NREL), Golden, Colorado, 6/3 - 6/4/03, further studies with the flash-pyrolysis nozzle, attempts to lower the rotational temperature  
 Professor Robert Bohn, Geoff Churchill<sup>1</sup>, Karissa Atticks<sup>1</sup>, Ruthanne Hassey<sup>2c</sup>, University of Connecticut, 6/12 - 6/17/03, **3-hexyne**  
 Professor Robert Bohn, Geoff Churchill<sup>1</sup>, Ruthanne Hassey<sup>2c</sup>, University of Connecticut, 7/09 - 7/10/03, 7/22/03, **isobutylbenzene** and **3-hexyne**  
 Professor Robert Bohn, Eric Shanahan<sup>2</sup>, Geoff Churchill<sup>1</sup>, Karissa Atticks<sup>1</sup>, University of Connecticut, 11/06 - 11/08/03, **isobutylbenzene**,  $\text{C}_6\text{H}_5\text{CH}(\text{CH}_3)_2$ , **5-hexynenitrile**,  $\text{N}\equiv\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{CH}$   
 Professor Robert Bohn, University of Connecticut, 1/05 - 1/08/04, **propargyl benzene**,  $\text{C}_6\text{H}_5\text{CH}_2\text{C}\equiv\text{CH}$   
 Professor Robert Bohn, University of Connecticut, 4/19 - 4/22/04, **4-octyne**, di-n-propyl acetylene  
 Professor Robert Bohn, University of Connecticut, 5/11 - 5/12/04, **4-octyne**, di-n-propyl acetylene  
 Dr. Amy Stevens Miller, ChemMotif, Concord, MA, 6/04/04, beginning of a collaboration on **HCo(PF<sub>3</sub>)<sub>4</sub>**, delivering and transferring the samples  
 Professor Jens-Uwe Grabow, University of Hannover, 6/09/04 - 6/10/04, upgrade computer-spectrometer interface.  
 Professor Robert Bohn, University of Connecticut, 6/30 - 7/01/04, **propargyl benzene**,  $\text{C}_6\text{H}_5\text{CH}_2\text{C}\equiv\text{CH}$ , partially deuterated; **4-octyne**, di-n-propyl acetylene; **isobutylbenzene**  
 Professor Karen Peterson, San Diego State University, 7/7 - 7/9/04, **argon propane**  
 Professor Robert Bohn, Albeiro Restrepo<sup>1</sup>, University of Connecticut, 10/28 - 10/30/04, **5-hexynenitrile**,  $\text{N}\equiv\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{CH}$ ; **heptadiyne**,  $\text{HC}\equiv\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{CH}$   
 Dr. Thomas Blake, Pacific Northwest National Laboratory, 11/15 - 11/19/04, **tropolone**,  $c\text{-C}_7\text{H}_5\text{OOH}$ , **Ar tropolone**, **water tropolone**  
 Professor Robert Bohn, Albeiro Restrepo<sup>1</sup>, Geoff Churchill<sup>1</sup>, University of Connecticut, 1/05 - 1/08/05, **1,6-heptadiyne**,  $\text{HC}\equiv\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{CH}$ ; **2-methyl-3-hexyne**, isopropylethylacetylene,  $(\text{CH}_3)_2\text{CH}-\text{C}\equiv\text{C}-\text{CH}_2\text{CH}_3$   
 Geoff Churchill<sup>1</sup>, University of Connecticut, 2/7/05, **2-methyl-3-hexyne**  
 Geoff Churchill<sup>1</sup>, University of Connecticut, 2/28/05, **2-methyl-3-hexyne**  
 Professor Robert Bohn, Albeiro Restrepo<sup>1</sup>, Geoff Churchill<sup>1</sup>, Lu Ma<sup>2</sup>, University of Connecticut, 3/07 - 3/11/05, **1,6-heptadiyne**,  $\text{HC}\equiv\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{CH}$ ; **2-methyl-3-hexyne**, isopropylethylacetylene,  $(\text{CH}_3)_2\text{CH}-\text{C}\equiv\text{C}-\text{CH}_2\text{CH}_3$ ; **2-methylbutane**, isopentane,  $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_3$   
 Geoff Churchill<sup>1</sup>, Kristin Swana<sup>2</sup>, University of Connecticut, 4/4/05, **isopentane**  
 Professor Robert Bohn, Geoff Churchill<sup>1</sup>, Kristin Swana<sup>2</sup>, University of Connecticut, 4/18/05, **isopentane**  
 Professor Robert Bohn, Albeiro Restrepo<sup>1</sup>, 5/9 - 5/11/05, **allylbenzene**,  $\text{C}_6\text{H}_5\text{CH}_2-\text{C}\equiv\text{CH}$ ,  
 Professor Robert Bohn, Geoff Churchill<sup>1</sup>, University of Connecticut, 4/18/05, **isopentane**  
 Professor Lu Kang, Union College, Barbourville, KY., 6/18 - 6/26/05,  $\text{H}_2\text{P}-\text{C}\equiv\text{C}-\text{CN}$   
 Professor Karen Peterson, San Diego State University, 6/27 - 7/1/05, **argon propane**, **neon propane**,  $\text{Ne CH}_3\text{CH}_2\text{CH}_3$

Professor Robert Bohn, Geoff Churchill<sup>1</sup>, Becky Milot<sup>2d</sup>, University of Connecticut, 7/21-7/23/05, **4-methyl-1-pentyne**,  $\text{HC}\equiv\text{C}-\text{CH}_2-\text{CH}(\text{CH}_3)_2$

Geoff Churchill<sup>1</sup>, University of Connecticut, 8/15 - 8/19/2005, conformations of **2-methyl-3-hexyne**,  $(\text{CH}_3)_2\text{CH}-\text{C}\equiv\text{C}-\text{CH}_2\text{CH}_3$ , isopropylethylacetylene, **isopentane**

Geoff Churchill<sup>1</sup>, University of Connecticut, 10/11 - 10/13/2005, conformations of **2-methyl-3-hexyne**,  $(\text{CH}_3)_2\text{CH}-\text{C}\equiv\text{C}-\text{CH}_2\text{CH}_3$ , isopropylethylacetylene

Professor Robert Bohn, Tanya Povrozyk<sup>2</sup>, University of Connecticut, 10/13 - 10/15/2005, **3-heptyne**,  $\text{CH}_3\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2\text{CH}_2\text{CH}_3$

Professor Robert Bohn, Geoff Churchill<sup>1</sup>, University of Connecticut, 11/8 - 11/12/05, **2-methyl-3-hexyne**, and **3-heptyne**

Geoff Churchill<sup>1</sup>, University of Connecticut, 11/28/05, 12/7 -12/8/05, **3-heptyne**, and **n-pentane**

Professor Lu Kang, Union College, Barbourville, KY., 12/12/05 - 1/8/06,  $\text{H}_2\text{P}-\text{C}\equiv\text{C}-\text{C}\equiv\text{N}$ , **phosphaacetylnitrile**;  $\text{C}_6\text{H}_5\text{OCF}_3$ , **trifluoroanisole**;  $\text{CF}_3\text{OOCF}_3$ , **bis(trifluoromethyl)peroxide**;  $\text{CF}_3\text{OO}\cdot$ , **trifluoromethylperoxy radical**

Professor Robert Bohn, Geoff Churchill<sup>1</sup>, University of Connecticut, 1/9 - 1/11/06, **3-heptyne**, **pentane**, **isopentane**

Visiting Professor Jennifer Van Wijngaarden, Mount Holyoke College, 1/12 - 1/20/06, various projects, **argon cyclopenteneoxide**

Professor Robert Bohn, Christian Acharte<sup>2</sup>, Geoff Churchill<sup>1</sup>, University of Connecticut, 2/13 - 2/14,  $\text{CF}_3\text{CO}_2\text{C}_2\text{H}_5$ , **ethyl trifluoroacetate**

Professor Jennifer Van Wijngaarden, Mount Holyoke College, 2/14, **argon cyclopenteneoxide**

Professor Jennifer Van Wijngaarden, Mount Holyoke College, 2/19 & 2/21/06,  $\text{CF}_3\text{O}\cdot$ , **trifluoromethoxy radical**

Professor Jennifer Van Wijngaarden, Mount Holyoke College, 3/7, 3/14, 3/19-23, 3/28, 4/10, 4/11/06, **HPCN** radical

Professor Robert Bohn, Christian Acharte<sup>2</sup>, University of Connecticut, 4/12/06  $\text{CF}_3\text{CO}_2\text{C}_2\text{H}_5$ , **ethyl trifluoroacetate**, new conformation in He expansion

Professor Jennifer Van Wijngaarden, Mount Holyoke College, 4/25, 4/30 - 5/2/06, **HPCN** radical

Professor Robert Bohn, University of Connecticut, 5/9 - 5/11/06, **3-heptyne**,  $\text{CH}_3\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2\text{CH}_2\text{CH}_3$ , new conformation in He expansion; **2-methyl-1-hexene-3-yne**, ethylpropenylacetylene,  $\text{CH}_3\text{CH}_2-\text{C}\equiv\text{C}-\text{C}(\text{CH}_2)\text{CH}_3$

Professor Robert Bohn, University of Connecticut, 5/30 - 5/31/06, second conformer of **3-hexyne**; **1-phenyl-1-ethanol**,  $\text{C}_6\text{H}_5\text{CH}(\text{OH})\text{CH}_3$

Professor Jennifer Van Wijngaarden, Mount Holyoke College, 6/12 - 6/14/06, **HPCN** radical

Professor Robert Bohn, Joe Yeager<sup>2e</sup>, University of Connecticut, 6/15/06, **2-methyl-1-hexene-3-yne**, ethylpropenylacetylene,  $\text{CH}_3\text{CH}_2-\text{C}\equiv\text{C}-\text{C}(\text{CH}_2)\text{CH}_3$

Professor Karen Peterson, San Diego State University, 6/26 - 6/30/06, **neon propane**,  $\text{Ne CH}_3\text{CH}_2\text{CH}_3$

Professor Lu Kang, Union College, Barbourville, KY., 7/3 - 8/18/06, various projects:  $\text{CF}_3\text{OC}_6\text{H}_5$ ,  $\text{Ar O}_3$ ,  $\text{Ne HCCCN}$ ,  $\text{CO HCCCN}$ ,  $\text{CO}_2\text{ HCCCN}$

Professor Robert Bohn, Joe Yeager<sup>2e</sup>, University of Connecticut, 7/12/06, **2-methyl-1-hexene-3-yne**, ethylpropenylacetylene,  $\text{CH}_3\text{CH}_2-\text{C}\equiv\text{C}-\text{C}(\text{CH}_2)\text{CH}_3$

Professor Karen Peterson, San Diego State University, 7/26 - 7/27/06, **neon propane**,  $\text{Ne CH}_3\text{CH}_2\text{CH}_3$

Professor Robert Bohn, Christian Acharte<sup>2</sup>, William Whalen<sup>2</sup>, University of Connecticut, 10/26 - 10/27/06, **2,5-dimethyl-3-hexyne**, diisopropyl acetylene,  $(\text{CH}_3\text{CHCH}_3)-\text{C}\equiv\text{C}-(\text{CH}_3\text{CHCH}_3)$

Professor Robert Bohn, William Whalen<sup>2</sup>, University of Connecticut, 11/20 - 11/21/06, **2,5-dimethyl-3-hexyne**, diisopropyl acetylene

Professor Lu Kang, Union College, Barbourville, KY., 12/11/06 - 1/6/07, **HCCCN CO**, **HCCCN CO**, **neon cyclopentene oxide**

Professor Robert Bohn, University of Connecticut, 1/4 - 1/5/07,

**5-hexenenitrile**,  $\text{N}\equiv\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{CH}$ ,  
**4,4-dimethyl-2-pentyne**, methyl t-butyl acetylene,  $\text{CH}_3-\text{C}\equiv\text{C}-\text{C}(\text{CH}_3)_3$   
 Professor Robert Bohn, University of Connecticut, 1/11/07,  
**4,4-dimethyl-2-pentyne**, methyl t-butyl acetylene,  $\text{CH}_3-\text{C}\equiv\text{C}-\text{C}(\text{CH}_3)_3$   
**trimethylsilyl t-butyl acetylene**,  $(\text{CH}_3)_3\text{Si}-\text{C}\equiv\text{C}-\text{C}(\text{CH}_3)_3$   
 Professor Robert Bohn, Joseph Fournier<sup>2</sup>, University of Connecticut, 3/7 - 3/9/07,  
**6-methyl-3-heptyne**,  $\text{CH}_3\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2\text{CH}(\text{CH}_3)_2$ , ethyl isobutyl acetylene  
 Professor Geoff Churchill, Manchester Community College, CT, videotaping how spectroscopy  
 is performed on the FTMW spectrometer, 3/8/07  
 Professor Lu Kang, Union College, Barbourville, KY., 4/26/07 - 5/3/07, **Ne O<sub>3</sub>**, isotopomers of  
**CO HCCCN**  
 Professor Robert Bohn, Joseph Fournier<sup>2</sup>, University of Connecticut, 5/17 - 18, 5/21 - 5/22/07,  
**4-octyne**,  $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_3$ ,  
**6-methyl-3-heptyne**, ethyl isobutyl acetylene,  $\text{CH}_3\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2\text{CH}(\text{CH}_3)_2$ ;  
**isobutylbenzene**  
 Professor Jens-Uwe Grabow, University of Hannover, 6/28 - 6/29/07,  
 consult on the status of the FTMW spectrometer.  
 Fumie Sunahori,<sup>1a</sup> University of Kentucky, 7/2 - 7/18/07, **CCP radical, HGeBr**  
 Professor Karen Peterson, San Diego State University, 7/22 - 7/25/07,  
**methane propane**,  $\text{CH}_4$   $\text{CH}_3\text{CH}_2\text{CH}_3$   
 Professor Robert Bohn, Joseph Fournier<sup>2</sup>, University of Connecticut, 8/20 - 8/21/07,  
**2-methyl pentane**,  $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{CH}_3$   
 Professor Robert Bohn, Joseph Fournier<sup>2</sup>, University of Connecticut, 11/19 - 11/20/07,  
**2-methyl pentane**  
 Professor Wei Lin, University of Saint Mary, Leavenworth, KS, 12/13 - 12/18/07,  
**Ne methylenecyclobutane, H<sub>2</sub>O CF<sub>3</sub>CN, Ne CF<sub>3</sub>CN**  
 Professor Lu Kang, Union College, Barbourville, KY., 12/15/07 - 1/04/08,  
**DSiCl, HGeBr, DGeBr**  
 Professor Robert Bohn, James Dombrowski<sup>2</sup>, Joseph Fournier<sup>2</sup>, Greg Salber<sup>2</sup>,  
 University of Connecticut, 1/07 - 1/08/08, **isobutylbenzene, hexane**  
 Professor Robert Bohn, James Dombrowski<sup>2</sup>, University of Connecticut, 3/11 - 3/12/08,  
**hexane, ethyl trifluoroacetate**  
 Professor Stephen Cooke, University of North Texas, visit planned for 4/29 - 5/2/08, to study our  
 methods of producing radicals with a discharge nozzle and methods of scanning the  
 spectra  
 Professor Lu Kang, Union College, Barbourville, KY., 5/16 - ~8/15/08, various projects  
 including **HGeBr**  
 Professor Robert Bohn, Joseph Fournier<sup>2</sup>, University of Connecticut, 5/27 - 5/28, 6/9 - 6/10/08  
**hexane; perfluoropentane; ethyl-2-pentynoate**,  $\text{CH}_3\text{CH}_2\text{C}\equiv\text{CCOOCH}_2\text{CH}_3$   
 Professor Karen Peterson, San Diego State University, 6/23 - 6/27/08,  
**methane propane**,  $\text{CH}_4$   $\text{CH}_3\text{CH}_2\text{CH}_3$   
 Professor Robert Bohn, Joseph Fournier<sup>2</sup>, University of Connecticut, 5/27 - 5/28, 6/9 - 6/10/08  
**hexane; perfluoropentane; ethyl-2-pentynoate**,  $\text{CH}_3\text{CH}_2\text{C}\equiv\text{CCOOCH}_2\text{CH}_3$   
 Professor Robert Bohn, Joseph Fournier<sup>2</sup>, University of Connecticut, 10/2 - 10/4/08  
**perfluoropentane**  
 Professor Robert Bohn, Joseph Fournier<sup>2</sup>, University of Connecticut, 11/6 - 11/7/08  
<sup>13</sup>C isotopomers of **perfluoropentane**  
 Professor Robert Bohn, Joseph Fournier<sup>2</sup>, University of Connecticut, 11/20 - 11/21/08  
<sup>13</sup>C isotopomers of **perfluoropentane; 3,5-octadiyne** (diethyldiacetylene)  
 Professor Lu Kang, Union College, Barbourville, KY., 12/18/08 - 1/9/09, **DSiI,**  
**OC H-C≡C-C≡N**  
 Professor Robert Bohn, Joseph Fournier<sup>2</sup>, James Dombrowski<sup>2</sup>, University of Connecticut,  
 1/12 - 1/13/09, <sup>13</sup>C isotopomers of **perfluoropentane**, conformers of **isopentane**

Professor Robert Bohn, James Dombrowski<sup>2</sup>, Tin Phan<sup>2</sup>, University of Connecticut,  
2/5 - 2/6/09, **perfluorohexane, 2-methylbutane**  
Professor Robert Bohn, University of Connecticut, 3/5 - 3/6/09, **3,5-octadiyne**,  
 $\text{CH}_3\text{CH}_2-\text{C}\equiv\text{C}-\text{C}\equiv\text{C}-\text{CH}_2\text{CH}_3$   
Professor Wei Lin, University of Saint Mary, Leavenworth, KS, 3/8 - 3/14/09, **3-pyrroline**,  
 $\text{c-NHCH}_2\text{CH}=\text{CHCH}_2$ ,  $\text{C}_4\text{H}_7\text{N}$   
Professor Karen Peterson, San Diego State University, 3/31 - 4/5/09,  
**methane propane**,  $\text{CH}_4$   $\text{CH}_3\text{CH}_2\text{CH}_3$   
Professor Robert Bohn, Joseph Fournier<sup>2</sup>, University of Connecticut, 6/8 - 6/10/09,  
**octadiyne; perfluoroheptane**,  $\text{C}_7\text{F}_{16}$ ; 1-H-perfluoropropane,  **$\text{CHF}_2\text{CF}_2\text{CF}_3$**   
Professor Robert Bohn, Joseph Fournier<sup>2</sup>, University of Connecticut, 7/28 - 7/30/09,  
**octadiyne**; 1-H-perfluoropropane,  **$\text{CHF}_2\text{CF}_2\text{CF}_3$**   
Professor Robert Bohn, James Dombrowski<sup>2</sup>, University of Connecticut, 9/25 - 9/26/09,  
<sup>13</sup>C isotopologues of **sec-phenethanol**,  $\text{C}_6\text{H}_5\text{CH}(\text{OH})(\text{CH}_3)$

\* From Sept. 1, 1997 through Aug. 31, 1998, Dr. Chen was half time with Professor Thaddeus and half time with S. Novick. Thus these visits do not, strictly, belong in the same category with those of "outside" visitors.

\*\* This visit involved only theory, not use of machine time.

<sup>1</sup> Graduate Student

<sup>1a</sup> Graduate student of Dennis Clouthier, University of Kentucky

<sup>2</sup> Undergraduate Student

<sup>2a</sup> Summer RUI student from Salisbury State, Salisbury, MD.

<sup>2b</sup> Summer RUI student from College of the Holy Cross, Worcester, MA.

<sup>2c</sup> Summer RUI student from Houghton College, Houghton, NY.

<sup>2d</sup> Summer RUI student from Providence College, Providence RI.

<sup>2e</sup> Summer RUI student from Centre College, Danville KY.