

Laboratory Visitors and Their Projects (as of 12/18)

- Professor Karen Peterson, University of Rhode Island, 7/4/93, **(CO)₂**
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 **CF₃** and **H₂CCCH**, using Peter Chen's flash pyrolysis source
Professor Kimberley Grant, College of St Elizabeth, 8/9 - 8/13/93, **PF₃**, **HCl** and **NF₃**, **HCl**
Dr. Mike McCarthy, Center for Astrophysics, Harvard Smithsonian, 8/17 - 8/20/93, various
radicals including **H₂CCCH**, **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, **CO₂**, **C₆H₆**
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, **(PF₃)₂**
Professor Karen Peterson, University of Rhode Island, 5/13, 17, 19, 25/94, **NO H₂O**
Professor Robert Bohn, University of Connecticut, 5/31 - 6/3/94, **methyl ethyl formamide**,
CH₃(NCHO)CH₂CH₃
Professor Karen Peterson, University of Rhode Island, 6/7, 8, 22, 24/94, **NO H₂O**
Professor Kimberley Grant, College of St Elizabeth, 8/1 - 8/5/94, **Ar NF₃**
Professor Jim LoBue, Georgia Southern University, 8/8 - 8/12/94, **CO₂**, **C₆H₆**
Professor Robert Bohn, University of Connecticut, 8/18 - 8/19/94, **3-hexyn-2-one**,
CH₃CH₂C≡C(CO)CH₃
Professor Wallace Pringle and David McCamant, Wesleyan University, 8/29 - 9/2/94,
Ar (CH₂)₃ (Argon cyclopropane)
Professor Wallace Pringle and David McCamant, Wesleyan University, 9/19 - 9/23/94,
Ar (CH₂)₃S (Argon trimethylene sulfide)
Dr. Mike McCarthy and Dr. Michael Travers, Center for Astrophysics, Harvard Smithsonian,
12/1 - 12/2/94, ¹³C substituted · **C=C-C≡C-H** radical
Professor Wallace Pringle and David McCamant, Wesleyan University, 1/13/95, **Ar (CH₂)₃S**
Professor Wallace Pringle and Ranjith Premasiri, Wesleyan University, 1/14 - 1/15/95,
Ar (CH₂)₃O (Argon trimethylene oxide)
Professor Robert Bohn, University of Connecticut, 1/16 - 1/20/95, **methyl ethyl formamide**,
CH₃(NCHO)CH₂CH₃
Professor Wallace Pringle, David McCamant, Ranjith Premasiri, Wesleyan University, 2/13 -
2/24/95, **Ar (CH₂)₃S** and **Ar (CH₂)₃O**
*{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**,
CH₃(NCHO)CH₂CH₃
Dr. Michael Travers, Harvard Smithsonian Center for Astrophysics, 4/27 - 4/28/95,
¹³C isotopomers of · **C=C=C=CH₂**
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**,
CH₃(NCHO)CH₂CH₃
Professor Karen Peterson, San Diego State University, 6/21 - 6/23/95, **NO H₂O**
Dr. Michael Travers, Harvard Smithsonian Center for Astrophysics, 7/6/95, · **C=C=C=CD₂**

Professor Kimberley Grant, College of St Elizabeth, 7/10 - 7/14/95, **Ar NF₃**
 Dr. Michael Travers, Dr. Mike McCarthy, Peter Kalmus, Harvard Smithsonian Center for Astrophysics, 8/8/95 **H-C₃-C≡C-C≡C-H**
 Dr. Michael Travers, Harvard Smithsonian Center for Astrophysics, 8/22 - 8/23/95 deuteration of **C₇H₂**
 Professor Jim LoBue, Georgia Southern University, 8/28 - 9/1/95, **Ar (CH₃)₂S**
 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 **CF₃C≡C-H**
 Dr. Michael Travers, Dr. Mike McCarthy, Harvard Smithsonian Center for Astrophysics, 3/4/96 (tentative), scans for **HC₁₁N**
 Professor Jim LoBue and student, Georgia Southern University, 3/19 - 3/22/96, **Ar (CH₃)₂S**
 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, **C₆H₅**
 Professor Robert Bohn and student, University of Connecticut, 12/17 -12/19/96, **methyl propyl formamide**, (CH₃)(C₃H₇)NCHO.
 Dr. Wei Chen, Harvard Smithsonian Center for Astrophysics, 12/23, 12/27, 12/30-31/96, **H₂C₄¹⁴N** deep scans from methyl cyano acetylene precursor.
 Professor Robert Bohn, University of Connecticut, 1/6 - 1/10/97, **n-propyl benzaldehyde**, CH₃CH₂CH₂(C₆H₄)CHO, and internal rotation in **t-butyl benzene**, C₆H₅C(CH₃)₃
 Dr. Wei Chen, Harvard Smithsonian Center for Astrophysics, 1/11 - 1/13/97, search for **H₂C₅O**.
 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**, (CH₃)₃C-C₅H₄N, and **2-pentynal**, CHOCCCH₂CH₃.
 Dr. Wei Chen, Harvard Smithsonian Center for Astrophysics, 4/29 - 5/2/97, searches for **H₂C₆N** using methyl cyano acetylene as a precursor.
 Professor Robert Bohn, University of Connecticut, 5/19 - 5/25/97, **3-phenyl-2-propynal**, C₆H₅CCCHO, and **N,N-diethyl formamide**, (C₂H₅)₂NCHO
 Professor Karen Peterson, San Diego State University, 8/2 - 8/6/97, **H₂O (NO)₂**
 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 (CH₃)₂S**
 Dr. Wei Chen*, Harvard Smithsonian Center for Astrophysics, 9/8 - 9/12/97, searches for **H₂C₆N** and **H₂C₅H**
 Dr. Wei Chen*, Harvard Smithsonian Center for Astrophysics, 10/6 - 10/10/97, searches for **H₂C₅H, H₂C-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 O₂ SO₂ using the "Pickett" programs for this inverting spin triplet complex
 Professor Robert Bohn, University of Connecticut, 1/5 - 1/11/98, **methyl-ethyl-formamide**, CH₃(NCHO)C₂H₅; **ethyl pentafluoro propionate**, CH₃CH₂O(CO)CF₂CF₃; **ethyl heptafluoro butyrate**, CH₃CH₂O(CO)CF₂CF₂CF₃
 Dr. Wei Chen*, Harvard Smithsonian Center for Astrophysics, 1/12 - 1/15, 1/26 - 1/30/98 searches for **H₂C₅H, H₂C-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 (CH₃)₂³⁴S**

Dr. Wei Chen*, Harvard Smithsonian Center for Astrophysics, 4/27 - 4/30/98, searches for **H₂C₇H**, **H₂C-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**, CHOSCH₃, **diethyl formamide**, C₂H₅(NCHO)C₂H₅, and **2-pentynal**, CHOCCCH₂CH₃.

Professor Robert Bohn, Colleen Coulter¹, Dorothy Bancroft², University of Connecticut, 6/4 - 6/5/98, **2-pentynal**, CHOCCCH₂CH₃.

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**, CHOCCCH₂CH₃, and **methyl thioformate**, CHOSCH₃

Professor Robert Bohn, Colleen Coulter, University of Connecticut, 11/24/98, **methyl thioformate**, CHOSCH₃

Professor Robert Bohn, Colleen Coulter, University of Connecticut, 1/7 - 1/8/99, **methyl thioformate**, CHOSCH₃

Professor Robert Bohn, Karissa Atticks¹, Colleen Coulter, University of Connecticut, 2/11 - 2/13/99, **butylacetylene**, CH₃CH₂CH₂CH₂C≡CH

Professor Robert Bohn, Karissa Atticks¹, University of Connecticut, 5/11 - 5/13/99, four conformations of **butylacetylene**, CH₃CH₂CH₂CH₂C≡CH

Professor Robert Bohn, Colleen Coulter¹, University of Connecticut, 1/18 - 1/20/99, **cyclopropyl benzene**, c-C₃H₅C₆H₅

Professor Jim LoBue, Georgia Southern University, 6/28 - 7/3/99, **Ar (CH₃)₂S**

Professor Robert Bohn, Amanda Willis², Karissa Atticks¹, Colleen Coulter¹, University of Connecticut, 7/12 - 7/16/99, **cyclopropyl benzene**, c-C₃H₅C₆H₅, **butylacetylene**, CH₃CH₂CH₂CH₂C≡CH, and **allyl benzene**, CH₂CHCH₂C₆H₅

Professor Robert Bohn, Karissa Atticks¹, University of Connecticut, 8/17 - 8/19/99, isotopomers of conformers of **butylacetylene**, CH₃CH₂CH₂CH₂C≡CH, (1-hexyne).

Professor Robert Bohn, Amanda Willis², University of Connecticut, 9/2 - 9/3/99, **cyclopropyl benzene**, c-C₃H₅C₆H₅, **1,2-difluorocyclohexane**, c-C₆H₁₀F₂

Professor Robert Bohn, Karissa Atticks¹, Lauren Nedell², University of Connecticut, 1/3 - 1/1/00, isotopomers of conformers of **butylacetylene**, CH₃CH₂CH₂CH₂C≡CH; **ortho-phthalaldehyde**, C₆H₄(CHO)₂

Professor Robert Bohn, University of Connecticut; Stacy Broadbent², Holy Cross, 6/22 - 6/23/00, **vinyl chloroformate**, ClCOOCHCH₂

Professor Jim LoBue, Georgia Southern University, 7/17 - 7/21/00, **Ar (CD₃)₂S**

Karissa Atticks¹, University of Connecticut; Stacy Broadbent², Holy Cross, 7/24 - 7/26/00, **vinyl chloroformate**, ClCOOCHCH₂

Professor Robert Bohn, Karissa Atticks¹, University of Connecticut, 8/14/00, isotopomers of conformers of **butylacetylene**, (1-hexyne), CH₃CH₂CH₂CH₂C≡CH

Professor Robert Bohn, Karissa Atticks¹, University of Connecticut, 10/27/00, isotopomers of conformers of **butylacetylene**, (1-hexyne), CH₃CH₂CH₂CH₂C≡CH

Professor Robert Bohn, Karissa Atticks¹, University of Connecticut, 11/17 - 11/20/00, ¹³C isotopomers of **vinyl chloroformate**, ClCOOCHCH₂

Professor Robert Bohn, Karissa Atticks¹, University of Connecticut, 12/19 - 12/20/00 **allyl nitrite**, O=N-O-CH₂-CH=CH₂

Professor Robert Bohn, Karissa Atticks¹, University of Connecticut, 1/11 - 1/12/01 conformers of **1,2-difluorocyclohexane**, c-C₆H₁₀F₂; **phenyl propargaldehyde**, C₆H₅CCCHO

Professor Robert Bohn, Karissa Atticks¹, Elizabeth Trosell², University of Connecticut, 1/18 - 1/19/01, C₆H₅CCCH₂CH₃, **1-phenyl-1-butyne**

Professor Robert Bohn, Elizabeth Trosell², University of Connecticut, 3/15 - 3/19/01 ax-ax conformer of **trans-1,2-difluorocyclohexane**; C₆H₅CH₂CCH, **propargylbenzene**

Professor Robert Bohn, Joanna Riccobono^{2a}, Karissa Atticks¹, 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 Atticks¹, Joanna Riccobono^{2a}, 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 Atticks¹, 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 Bimler², 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 Atticks¹, 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 Bimler², Karissa Atticks¹, 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 Dejesus³, Norwalk High School, 2/18 - 2/19/02, **2R- and 2S-heptane-2-ol**, $CH_3CHOH(CH_2)_4CH_3$

Professor Robert Bohn, Karissa Atticks¹, Emily Chu², 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 Atticks¹, University of Connecticut, 5/22 - 5/22/02, **benzyl alcohol**, $c-C_6H_5CH_2OH$.

Professor Robert Bohn, Karissa Atticks¹, Russell Giudici^{2b}, University of Connecticut, 6/6 - 6/7/02, **benzyl alcohol**, $c-C_6H_5CH_2OH$.

Dr. Jens-Uwe Grabow, Deike Banser¹, Melanie Schnell¹, University of Hannover, 6/24 - 6/25/02, upgrade computer-spectrometer interface.

Karissa Atticks¹, Russell Giudici^{2b}, 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 Atticks¹, Russell Giudici^{2b}, 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 Atticks¹, Russell Giudici^{2b}, University of Connecticut, 10/10 - 10/12/02, **propanol**; **phenethanol**, (phenyl hydroxy methyl methane).

Professor Robert Bohn, Karissa Atticks¹, University of Connecticut, 12/18 - 12/19/02, **deuterated benzyl alcohol**, $c-C_6H_5CH_2OD$.

Professor Robert Bohn, Geoff Churchill¹, Karissa Atticks¹, 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 Atticks¹, Eric Shananahan², 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 Atticks¹, Geoff Churchill¹, Elizabeth Trosell², 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 Atticks¹, University of Connecticut, 5/8 - 5/9/03, **1-hexyne**
 Professor Robert Bohn, Karissa Atticks¹, 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 Churchill¹, Karissa Atticks¹, Ruthanne Hassey^{2c}, University of Connecticut, 6/12 - 6/17/03, **3-hexyne**
 Professor Robert Bohn, Geoff Churchill¹, Ruthanne Hassey^{2c}, University of Connecticut, 7/09 - 7/10/03, 7/22/03, **isobutylbenzene** and **3-hexyne**
 Professor Robert Bohn, Eric Shanahan², Geoff Churchill¹, Karissa Atticks¹, 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(PF₃)₄**, 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 Restrepo¹, 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 Restrepo¹, Geoff Churchill¹, 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 Churchill¹, University of Connecticut, 2/7/05, **2-methyl-3-hexyne**
 Geoff Churchill¹, University of Connecticut, 2/28/05, **2-methyl-3-hexyne**
 Professor Robert Bohn, Albeiro Restrepo¹, Geoff Churchill¹, Lu Ma², 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 Churchill¹, Kristin Swana², University of Connecticut, 4/4/05, **isopentane**
 Professor Robert Bohn, Geoff Churchill¹, Kristin Swana², University of Connecticut, 4/18/05, **isopentane**
 Professor Robert Bohn, Albeiro Restrepo¹, 5/9 - 5/11/05, **allylbenzene**, $\text{C}_6\text{H}_5\text{CH}_2-\text{C}\equiv\text{CH}$,
 Professor Robert Bohn, Geoff Churchill¹, 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 Churchill¹, Becky Milot^{2d}, 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 Churchill¹, 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 Churchill¹, 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 Povrozyk², 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 Churchill¹, University of Connecticut, 11/8 - 11/12/05, **2-methyl-3-hexyne**, and **3-heptyne**

Geoff Churchill¹, 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**; CF_3OOCF_3 , **bis(trifluoromethyl)peroxide**; $\text{CF}_3\text{OO}\cdot$, **trifluoromethylperoxy radical**

Professor Robert Bohn, Geoff Churchill¹, 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 Acharte², Geoff Churchill¹, 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 Acharte², 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^{2e}, 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: $\text{CF}_3\text{OC}_6\text{H}_5$, Ar O_3 , Ne HCCCN , CO HCCCN , $\text{CO}_2\text{ HCCCN}$

Professor Robert Bohn, Joe Yeager^{2e}, 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 Acharte², William Whalen², 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 Whalen², 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 CO₂**, **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 Fournier², 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 O₃**, isotopomers of
CO HCCCN
 Professor Robert Bohn, Joseph Fournier², 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,^{1a} 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, CH_4 $\text{CH}_3\text{CH}_2\text{CH}_3$
 Professor Robert Bohn, Joseph Fournier², 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 Fournier², 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, H₂O CF₃CN, Ne CF₃CN
 Professor Lu Kang, Union College, Barbourville, KY., 12/15/07 - 1/04/08,
DSiCl, HGeBr, DGeBr
 Professor Robert Bohn, James Dombrowski², Joseph Fournier², Greg Salber²,
 University of Connecticut, 1/07 - 1/08/08, **isobutylbenzene, hexane**
 Professor Robert Bohn, James Dombrowski², 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 Fournier², 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, CH_4 $\text{CH}_3\text{CH}_2\text{CH}_3$
 Professor Robert Bohn, Joseph Fournier², 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 Fournier², University of Connecticut, 10/2 - 10/4/08
perfluoropentane
 Professor Robert Bohn, Joseph Fournier², University of Connecticut, 11/6 - 11/7/08
¹³C isotopomers of **perfluoropentane**
 Professor Robert Bohn, Joseph Fournier², University of Connecticut, 11/20 - 11/21/08
¹³C 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 Fournier², James Dombrowski², University of Connecticut,
 1/12 - 1/13/09, ¹³C isotopomers of **perfluoropentane**, conformers of **isopentane**

Professor Robert Bohn, James Dombrowski², Tin Phan², 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**, CH_4 $\text{CH}_3\text{CH}_2\text{CH}_3$

Professor Robert Bohn, Joseph Fournier², University of Connecticut, 6/8 - 6/10/09, **octadiyne; perfluoroheptane**, C_7F_{16} ; 1-H-perfluoropropane, **$\text{CHF}_2\text{CF}_2\text{CF}_3$**

Professor Robert Bohn, Joseph Fournier², 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 Dombrowski², University of Connecticut, 9/25 - 9/26/09, ¹³C isotopologues of **sec-phenethanol**, $\text{C}_6\text{H}_5\text{CH}(\text{OH})(\text{CH}_3)$

Professor Robert Bohn, James Dombrowski², Contin Phan², University of Connecticut, 11/23 - 11/24/09, **5-hexyne nitrile**, $\text{HCC}(\text{CH}_2)_3\text{CN}$

Professor Robert Bohn, Joseph Fournier², University of Connecticut, 12/21 - 12/22/09, **3,5-octadiyne**

Professor Robert Bohn, James Dombrowski², University of Connecticut, 1/06 - 1/07/10, **secondary phenyl ethanol**, $\text{CH}_3\text{CH}(\text{C}_6\text{H}_5)\text{OH}$; 1-H-perfluorobutane, **$\text{HCF}_2\text{CF}_2\text{CF}_2\text{CF}_3$**

Professor Robert Bohn, Joseph Fournier², University of Connecticut, 1/14/10, **3,5-octadiyne; 1-H-perfluorobutane**

Professor Robert Bohn, Joseph Fournier², University of Connecticut, 2/25 - 2/26/10, **3,5-octadiyne**

Professor Robert Bohn, University of Connecticut, 4/8 - 4/9/10, **sec-phenethanol**, $\text{C}_6\text{H}_5\text{CHOHCH}_3$

Professor Robert Bohn, Joseph Fournier², University of Connecticut, 5/19 - 5/20/10, **3,5-octadiyne**

Professor Robert Bohn, University of Connecticut, 7/27 - 7/28/10, **benzylmethylether**, $\text{C}_6\text{H}_5\text{CH}_2\text{OCH}_3$; **pentafluoroaniline**, $\text{C}_6\text{F}_5\text{NH}_2$

Professor Karen Peterson, San Diego State University, 9/22 - 10/02/10 **methane propane**, CH_4 $\text{CH}_3\text{CH}_2\text{CH}_3$

Professor Wei Lin, University of Texas, Brownville, TX, 12/8 - 12/15/10, $(\text{CH}_3\text{CHClF})_2$

Professor Andrea Minei, Joy Cote,² Kyle Firmender,² College of Mount Saint Vincent, 4/19/11 visit to introduce students to the laboratory in preparation for future experiments

Professor Robert Bohn, University of Connecticut, Lecturer Geoff Churchill, Curry College, 5/12 - 5/13/11, **3,5-octadiyne**; $\text{C}_6\text{F}_5\text{OH}$, **pentafluorophenol**

Starting in August 2011, **Professor Stephen Cooke** ^{***}, of the State University of New York at Purchase, is housing two of his spectrometers, a Chirp/Cavity and a Cavity FTMW spectrometer in our laboratory at Wesleyan. Professor Cooke will be visiting the laboratory ever other week for the next few years.

Professor Robert Bohn, University of Connecticut, Dr. Geoff Churchill, Norwell, MA, School District, 8/25 - 8/26/11, **1-H-nonfluorobutane**, $\text{HCF}_2\text{CF}_2\text{CF}_2\text{CF}_3$

Professor Wei Lin, University of Texas, Brownville, TX, 12/8 - 12/12/11, **$\text{CF}_3\text{CF}_2\text{COOH}$** , pentafluoropropionic acid; **H_2O $\text{CF}_3\text{CF}_2\text{COOH}$** ; **thioxanthone**, $\text{C}_9\text{H}_8\text{OS}$; all data taken on the Chirp Spectrometer.

Professor Andrea Minei, College of Mount Saint Vincent, 12/22 - 12/23/11, **perfluorodecanonitrile**, $\text{CF}_3(\text{CF}_2)_8\text{CN}$

Frank DeChirico², SUNY Purchase, 3/5/12, Frank accompanied his research advisor, Professor **Stephen Cooke** ^{***}, to work on **propyl methyl ether** on the Chirp Spectrometer

Nadeen Alkhawam², SUNY Purchase, 5/12, accompanied her research advisor, Professor Stephen Cooke ^{***} to work on **phenylchloride**

Professor Wei Lin, University of Texas, Brownville, TX, 5/24 - 5/30/12, **pentafluoropropionic**

- acid, 2,2,3,3-tetrafluoropropionic acid, 2,3,3,3-tetrafluoropropionic acid, H₂O 2,3,3,3-tetrafluoropropionic acid**, singly deuterated **pentafluoropropionic acid** in natural abundance. Some spectra taken on the Chirp Spectrometer, some on the cavity spectrometer.
- Professor Andrea Minei, College of Mount Saint Vincent, 8/08/12, spectra collected by Stephen Cooke, **trans-1-H,2-H-perfluorocyclobutane**, C₄H₂F₆, and **cis-1-H,2-H-perfluorocyclobutane**, C₄H₂F₆ (on the Chirp)
- Professor Andrea Minei, College of Mount Saint Vincent, 8/14/12, spectra collected by Stephen Cooke, **1-H,2-H-perfluorocyclopentane**, C₅H₂F₈, **1-H,1-H,2-H-perfluorocyclopentane**, C₅H₃F₇ (on the Chirp)
- Professor Andrea Minei, College of Mount Saint Vincent, 8/24/12, **1,1,2,2,3-pentafluorocyclobutane**, C₄H₃F₅ (on the Chirp)
- Professor Andrea Minei, College of Mount Saint Vincent, 8/31/12, spectra collected by Stephen Cooke, **(CF₃)₂C=C(F)OCH₃**, 1,1,1,3-tetrafluoro-2-(trifluoromethyl)-4-oxapent-2-ene, 1,1-trifluoromethyl-2-fluoro-2-methoxy ethylene (on the Chirp)
- Alise Turk², SUNY Purchase, 2/13/13, accompanied her research advisor, Professor Stephen Cooke^{***} has worked on assigning CF₃OCHF₂CF₃. This visit is to observe the spectrometers in action.
- Jens-Uwe Grabow, Institut für Physikalische Chemie, Gottfried-Wilhelm-Leibniz Universität, Hannover, Germany, 6/24/13 - 7/2/13. This visit was for our benefit. Jens upgraded Steve Cooke's two spectrometers to allow automated scanning and helped SEN with the upgrade of his spectrometer to 40 GHz.
- Alexandra (Lexi) Mikail², SUNY Purchase, 3/25/14, accompanied her research advisor, Professor Stephen Cooke^{***}, Observed the set-up for using the Chirp spectrometer for double resonance.
- Yoon Choi², Weixin (Wei) Wu², SUNY Purchase, 5/23/14, accompanied their research advisor, Professor Stephen Cooke^{***}, for a visit to begin to learn how to run the spectrometers in preparation for their summer research projects.
- Yoon Choi², Weixin (Wei) Wu², SUNY Purchase, 6/2/14 - 6/6/14, Wei worked on **1H,8H-perfluorooctane**, C₈H₂F₁₆, and Yoon worked on **perfluorocyclopentene**, C₅F₈. Both of these experiments were performed on the Chirp spectrometer.
- Yoon Choi², Weixin (Wei) Wu², SUNY Purchase, 7/21/14 - 7/25/14, **perfluorocyclopentene**, C₅F₈, and **perfluorocyclohexene**, C₆F₁₀, experiments both on the Chirp and on the Cavity spectrometers.
- Professor Wei Lin, University of Texas, Brownville, TX, 12/14 -12/20/14, **water propane**, H₂O CH₃CH₂CH₃, **pentafluoropropionic acid formic acid**, F₃CCF₂COOH HCOOH, **water 2,2,3,3-tetrafluoropropionic acid**, H₂O HF₂CCF₂COOH. Some spectra taken on the Chirp Spectrometer, some on the cavity spectrometer.
- Juan Betancu², SUNY Purchase, 2/06/15, **pentyl methyl ether**, C₅H₁₁OCH₃, on the Chirp
- Aaron Schwartz², SUNY Purchase, 5/18 - 5/22/15, **1-hexyne**, HC≡CCH₂CH₂CH₂CH₃, **1-octyne**, HC≡CCH₂CH₂CH₂CH₂CH₂CH₃, on the Chirp
- E. Arunan, IIT, Bangalor, India, 6/15 - 6/19/15. Professor Arunan visited my lab in order to learn about the Chirp Spectrometer, so as to be able to build one in his laboratory in Bangalor.
- Jens-Uwe Grabow, Leibniz University, Hannover, Germany, 6/18 - 6/19/15. Jens visited my lab in order to help us fix a problem with our 40 GHz microwave circuit. Mission Accomplished.
- Aaron Schwartz², SUNY Purchase, 8/03 - 8/07/15, **1H,1H-heptafluorobutanol**, CF₃CF₂CF₂CH₂OH; **1H,1H-nonafluoropentanol**, CF₃CF₂CF₂CF₂CH₂OH; **1H,1H-undecafluorohexanol**, CF₃CF₂CF₂CF₂CF₂CH₂OH, on the Chirp.
- Professor Stephen Daunt, The University of Tennessee, 9/21/15, meeting to discuss our participation in the microwave spectroscopy of ¹³C isotopomers of **propane**, to aid in his high resolution infrared spectroscopy, which in turn, is to support spectroscopic investigation of planetary atmospheres.

Dr. Thomas Blake, Pacific Northwest National Laboratory, 10/05 - 10/09/15, **water tropolone**, H_2O c- $\text{C}_7\text{H}_5\text{OOH}$, **methyl iodide**, **butyl iodide**

Elis Dervishi,² Jonathan Ogulnick,² Wilman Orellana,² Luiggi Rodriguez,² Kimberly Seegopaul,² Elizabeth Villegas,² SUNY Purchase, 10/20/15, $\text{C}_n\text{H}_{2n+1}\text{F}_n$, n = 5, 6, 7, 8, 9, 10

Luiggi Rodriguez,² SUNY Purchase, 12/31/15, to familiarize himself with and work on the Chirp spectrometer

Professor Lu Kang, Kennesaw State University, Marietta, GA., 4/06/16, analysis of CO_2 HCCCN spectra

Wilman Orellana,² SUNY Purchase, 5/17 - 5/20/16, **methane propane**, ^{13}C isotopologues of **Ar cyanocyclobutane**, **2-bromopyridine**

Professor Karen Peterson, San Diego State University, 8/01 - 8/05/16
methane propane, CH_4 $\text{CH}_3\text{CH}_2\text{CH}_3$

Professor Wei Lin, University of Texas, Rio Grande Valley, 12/08 - 12/13/16, **4,4,4-trifluorobutyric acid**, $\text{CF}_3\text{CH}_2\text{CH}_2\text{COOH}$, and its complex with formic acid, **HCOOH**; **2,3,4,5,6-pentafluorobenzoic acid**, c- $\text{C}_6\text{F}_5\text{COOH}$, and its complex with **formic acid**.

Professor Andrea Minei, Lauren Tate,² College of Mount Saint Vincent, 1/12 - 1/13/17, **perfluorodecanonitrile**, $\text{C}_9\text{F}_{19}\text{CN}$

Dr. Daniel Obenchain, Institut für Physikalische Chemie und Elektrochemie, University of Hannover, Germany, 7/11 - 7/23/18, searching for ions, H_2CO^+

Professor Karen Peterson, San Diego State University, 7/24 - 7/27/18 **methane propane**, CH_4 $\text{CH}_3\text{CH}_2\text{CH}_3$

Professor Wei Lin, University of Texas, Rio Grande Valley, 12/10 - 12/18/18, **perfluoro hexanoic acid**, **perfluoroheptanoic acid**, **2-butynoic acid - formic acid complex**

* 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.

¹ Graduate Student

^{1a} Graduate student of Dennis Clouthier, University of Kentucky

² Undergraduate Student

^{2a} Summer RUI student from Salisbury State, Salisbury, MD.

^{2b} Summer RUI student from College of the Holy Cross, Worcester, MA.

^{2c} Summer RUI student from Houghton College, Houghton, NY.

^{2d} Summer RUI student from Providence College, Providence RI.

^{2e} Summer RUI student from Centre College, Danville KY.

*** Professor **Stephen Cooke** moved from the University of North Texas to SUNY Purchase in the summer of 2011. Two of Steve's spectrometers, a cavity FTMW, and a Chirp FTMW now resided in my lab, where my students and I use and help maintain these spectrometers. However, they remain Professor Cooke's spectrometers. Thus when Steve comes alone to visit & use his own spectrometers, I do not include these visits (which occur about every other week) unless he brings a SUNY Purchase student with him or he is taking the spectra for other colleagues; these visits I will include in this diary.