

NMR-CTP Tutorial: Web-Based NMR Training for Undergraduates

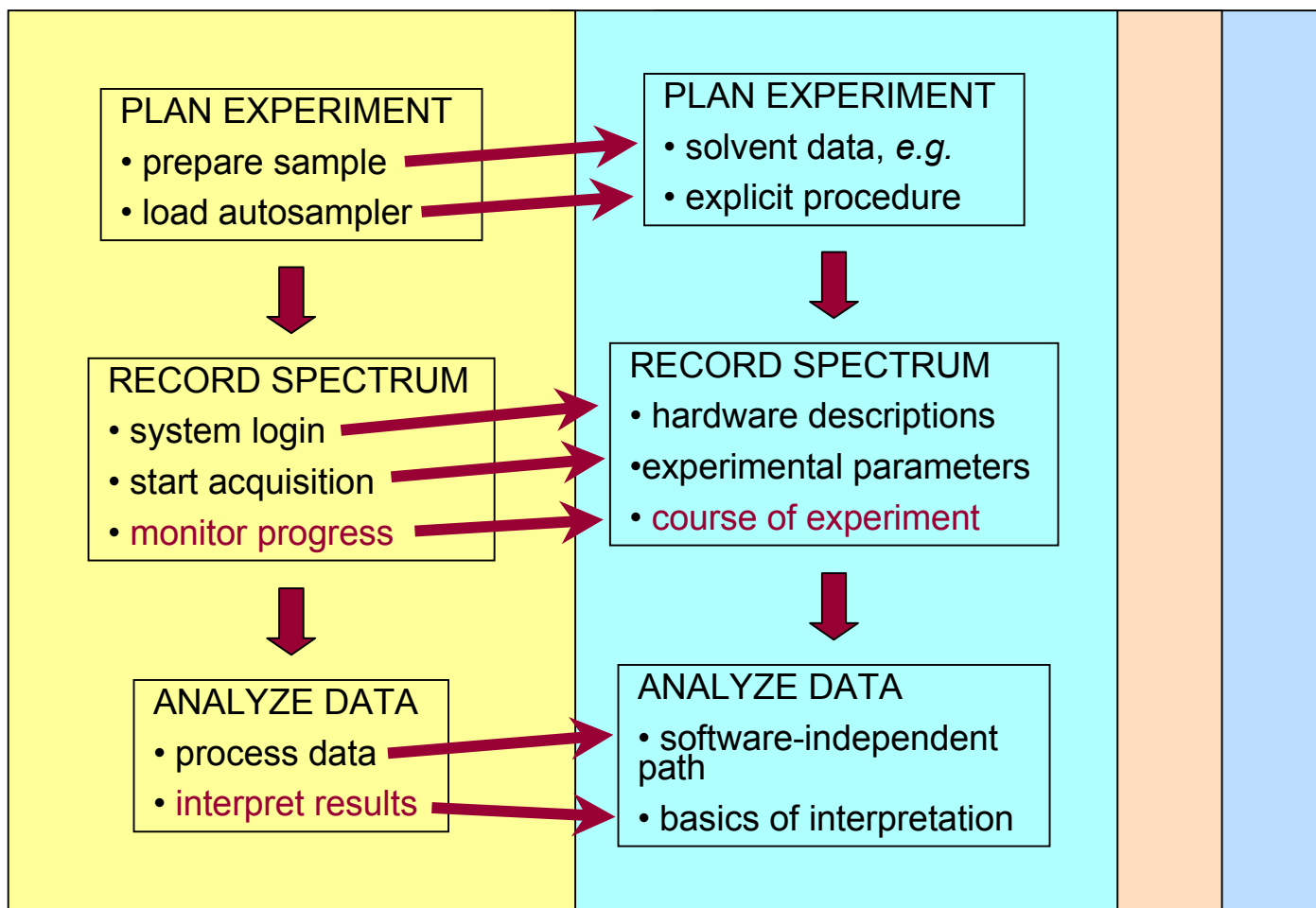
www.rider.edu/nmr ⇒ NMR Tutorial

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NMR Collaborative Training Project (NMR-CTP)

- cooperative program involving Rider University and several 2- and 4-year colleges in NJ and PA
- goal is to provide access to, and training in, modern NMR instrumentation for students at smaller schools
- spectrometer (Bruker Avance 300) located at Rider
- data are distributed via the Internet and processed locally (using NUTS)
- need for web-based training suitable for AS and BS-level students and their instructors

NMR-CTP Tutorial Structure



Increasing level of complexity →

Considerations:

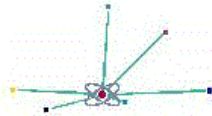
- allow multiple paths for different user levels and interests
- facilitate movement from one level to another
- make information as visual and interactive as possible
- provide “no frills” data-processing guidance
- insure that background information is redundant (but not repetitious) to accommodate free movement through site
- give supplemental information such as NMR Periodic Table, useful links, *etc.*
- develop self-test capabilities to let users gauge their own progress (future)

NMR-CTP Tutorial Homepage

FAST TRACK

- PLAN EXPERIMENT**
 - SAMPLE PREP
 - EXPERIMENT DESIGN
 - SAMPLE LOADING
- RECORD SPECTRUM**
 - EXPERIMENT SET-UP
 - PROGRESS MONITOR
- ANALYZE DATA**
 - DATA PROCESSING
 - DATA INTERPRETATION
- NUTS QUICK START**
- NUTS COMMANDS
- NMR DICTIONARY
- NMR PERIODIC TABLE
- NMR LINKS
- TUTORIAL HOME
- NMR-CTP HOME

Welcome to the NMR-CTP TUTORIAL



Welcome to the instructional arm of the NMR-Collaborative Training Project (NMR-CTP). Through the use of this tutorial, we hope that you will come to understand many of the practical aspects of NMR experiments, from preparing a sample to analyzing the resulting spectrum.

If you have any questions or problems using this tutorial, please contact either [Anita Brandolini](#) or [Alex Grushow](#) by email.

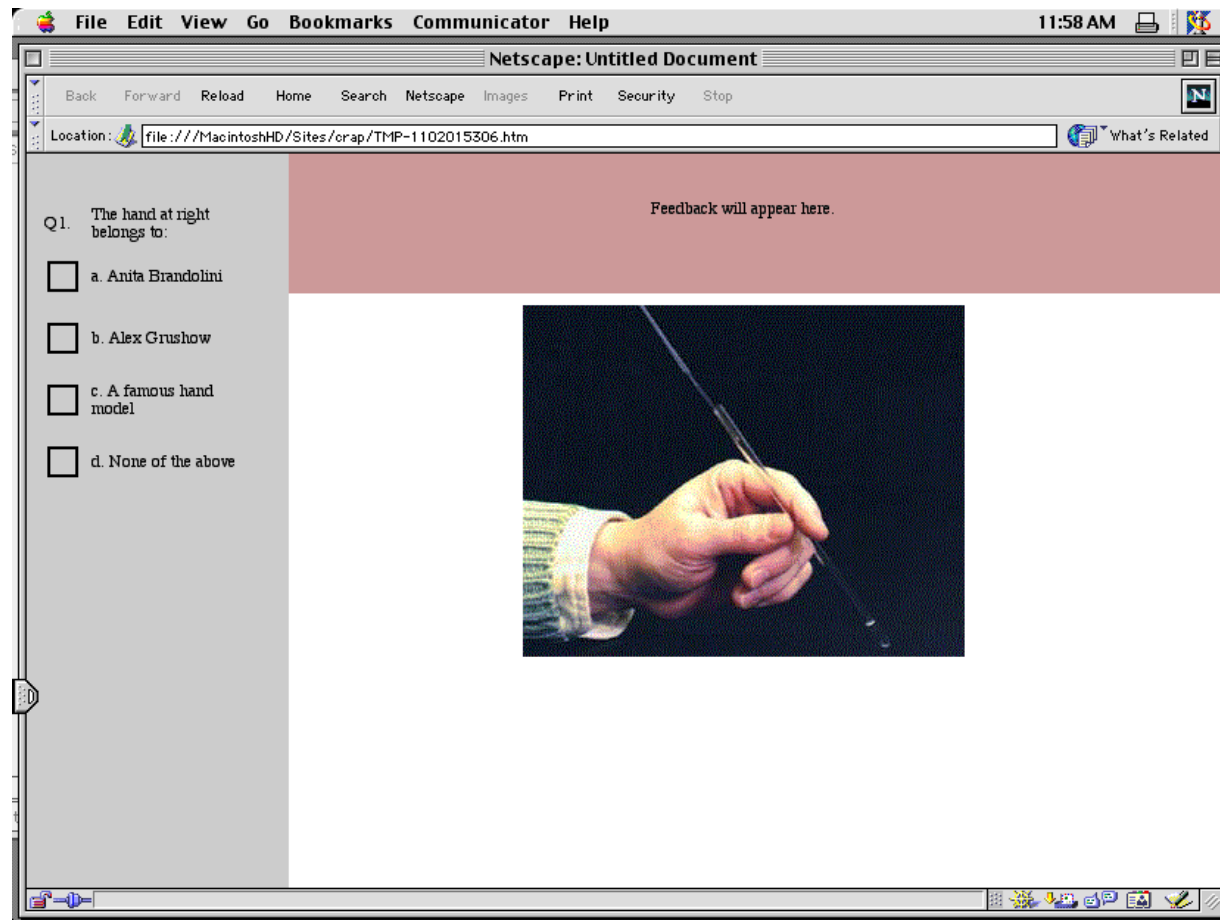
[Alexander Grushow, PhD](#)
Director, NMR-CTP

Start

For more information about the NMR-CTP, [click here](#)

Text and photos by [Anita Brandolini, PhD](#)

Self-test example (future development)



Self-test example (future development)

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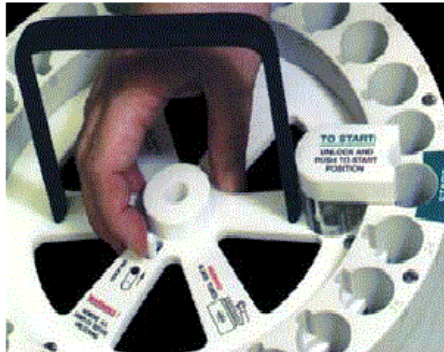
Back Forward Reload Home Search Netscape Images Print Security Stop

Location: file:///MacintoshHD/Sites/crap/TMP-1102015306.htm What's Related

Q1. The hand at right belongs to:

- a. Anita Brandolini
- b. Alex Grushow
- c. A famous hand model
- d. None of the above

No, a picture of Anita's hand appears below.



TO START!
ENGAGE AND
PULL TO START
POSITION

Self-test example (future development)

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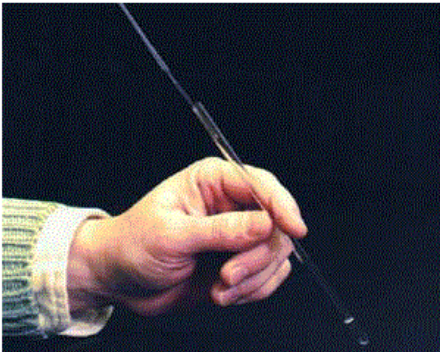
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Right you are!!!



Acknowledgements

- National Science Foundation
- Camille and Henry Dreyfus Foundation

Address: www.rider.edu/nmr ⇒ NMR Tutorial

- send comments, suggestions, or extravagant praise to abrandolini@rider.edu