

Guide for REU Participants

Cornell University
Laboratory for Elementary-Particle Physics
and
Cornell High Energy Synchrotron Source

Summer 2008

GREETINGS!

Welcome to the Laboratory for Elementary-Particle Physics (LEPP) and the Cornell High Energy Synchrotron Source (CHESS) at Cornell University. We all hope that your time at Cornell will be interesting, stimulating and enjoyable. We stand ready to help you in the busy and challenging weeks ahead.

Please look over the following helpful information. If you have questions, comments or suggestions for other items to include in this guide in the future, please stop by to see me in 108 Newman Laboratory (5-3633), or 385 Wilson Laboratory (5-8784), or Monica Wesley in 130 Newman Laboratory (5-4952) or Lora Hine in 319 Wilson Laboratory (5-2319).

Richard S. Galik

PROGRAM STAFF and PARTICIPANTS:

The program staff and participants are listed on our web page:

<http://www.lepp.cornell.edu/Education/ReuProgram2008.html>

This guide will also appear on that page. The program is administered by the National Science Foundation, which dispenses grants to “Principal Investigators”. The PI for this REU grant is Prof. Richard Galik. Monica Wesley is the head of the administrative staff supporting our effort. Lora Hine, LEPP’s Director of Educational Programs, is also involved in planning and coordinating events.

STIPEND CHECKS:

Monica Wesley will distribute stipend checks to Cornell REU participants on June 2, July 2, and August 7.

ORIENTATION DAY AGENDA (Monday, June 2):

- | | |
|-----------------------|---|
| 9:30 -- 10:45 | Orientation session led by R. Galik, 311 Newman |
| 11:00 -- 12:00 | Project descriptions by mentors, 311 Newman |
| 12:00 -- 1:00 | Students meet faculty and staff over lunch, 305 Newman |

TOURS / LECTURES:

The calendar for the three months of June/July/August is available at the REU web site. We have a number of interesting lectures and presentations planned, so please be sure to regularly consult the calendar. We will also send email reminders to your LEPP addresses. Participation is expected.

Several tours of other facilities may be scheduled for this summer. If any other interesting events come up, we will post links on the REU site. If you learn of any events that may be of general interest, please let us know!

Some early items of note:

Tuesday, June 3 **Wilson Lab Safety Orientation**, 374 Wilson Lab
10:00 – 11:00

Wednesday, June 4
6:00 – 8:00 **REU Welcome Dinner**, G10 Biotech, NBTC host

REPORTS:

You will give **your** description and plans for your projects 20-22 June. These are brief 10-minute presentations. We have projectors for pdf files, or other computer formats.

Your final oral REU report will be in the final week, 4-8 August, for which you will have 20 minutes. Please plan to stay in Ithaca for the duration of that week!

In our program reports to the NSF we need to include brief written reports from the REU participants. We wish to have all the reports have a common "look and feel" and will be providing templates for your use. Traditionally these reports have been prepared with the LaTeX formatting language, and that is still the preferred mode. Increasingly the field uses MicroSoft Word and a template is being prepared in that application. Do not wait until the last week to learn how to use these tools!

CORNELL-WIDE REU ACTIVITIES:

The various REU programs on campus are attempting to become better coordinated, thus affording REU participants a wider array of activities and opportunities. The combined housing in Balch Hall is one such endeavor. A link at our web site takes you to some of these programs.

There will be three group dinner activities, the first being the Welcome Dinner on Wednesday, June 4. The others are a recreational night at Helen Newman Gymnasium and another group activity yet to be decided.

Similarly the Cornell Center for Material Research sponsors a series of **Fun Talks** at lunch-time most Thursdays from 12 – 1 PM in 700 Clark Hall. You will receive tickets for lunch for these dates in your orientation packets. There is no need to give advance notice of your attending, but you **must** have your ticket to get lunch! There will also be a series of **NanoTalks** sponsored by Cornell Nano Science in 700 Clark Hall from noon to 1:15 PM. Please check your calendars for the dates.

Within LEPP we have tried not to micro-manage your weekends. However, CCMR, the largest of the CU REU programs, has set up two **Bus Trips** that may be of interest to LEPP REUers. The first is a one-day round-trip to **New York City** and the second is a trip to **Niagara Falls**. See the links at our website for details. Tickets are very limited in number.

INTERNET ACCESS FOR BALCH:

REU students who wish to have internet access from their dorm room need to use their Cornell NetID. With a CU NetID the student can then complete an interactive form for a ResNet account that will give them access to Cornell's connections to the world. Rooms at Balch have wired Ethernet connections and many of the Balch common areas have wireless access.

MAIL:

In addition to your personal mail boxes at Appel Commons, we will have one shared REU mail box at Wilson and Newman Labs. The proper addresses to use: "Your Name" (REU), 134 Newman Lab or 305 Wilson Lab, Ithaca, NY 14853, depending on your building location.

E-MAIL:

You will have a LEPP computer account with user-name and password. We will forward email addressed to you at user-name@mail.lepp.cornell.edu to the email address we have on file from your application and prior correspondence.

PHONE CALLS:

Students must use personal cell phones or a **pre-paid phone card** for making **all** personal long distance phone calls from campus telephones. Phone cards can be purchased at the Cornell Bookstore or Post Office. Phone calls from the Lab to other locations on campus can be made by dialing the five-digit number (Ex: #255-2319 can be dialed as 5-2319). Personal cell phones are, of course, another option. Local phone calls require a "9" to get to an outside line before the 7-digit number.

CORNELL INFORMATION AND REFERRAL CENTER

The Information & Referral Center in Day Hall, maintained by the Office of Campus Information and Visitor Relations, is the primary source of general information for students, staff members, visitors and other guests of the Cornell Community. It provides information on events, transportation, athletics, and special programs.

Information Tools

The Center produces many printed and computerized information tools, including “Visiting Cornell”, “The HELP Sheet”, “The Cornell Pocket Calendar”, “The University Calendar”, “Cornell Facts”, and “This is Cornell”. More than 100 other specialized publications are available by request.

Access

Information and Referral Center

Location: Day Hall Lobby, East Avenue & Tower Road
Cornell University
Ithaca, NY 14853-2801

Hours: Monday through Saturday, 8 a.m. to 5 p.m.

Phone: 607 254-INFO (607 254-4636)

Fax: 607 255-5396

E-Mail: info@cornell.edu

Web address: <http://cuinfo.cornell.edu/Campus/Infobase/>

CAMPUS TOURS

The Information and Referral Center conducts student-guided walking tours of the campus for about 20,000 visitors each year and provides specialized tours, for groups or individuals that feature Cornell's history or research facilities.

Between April 1 and December 1 walking tours depart from the Information and Referral Center in the Day Hall lobby at 9:00 a.m., 11:00 a.m., 1:00 p.m., and 3:00 p.m. Monday through Friday, and 9:00 a.m., 10:30 a.m. and 1:00 p.m. on Saturday, and 1:00 p.m. on Sunday.

A 20-minute video presentation about Cornell University is shown prior to each tour. The tours are mostly outdoors; each lasts about an hour and fifteen minutes and includes information about Cornell's undergraduate, graduate, and professional schools and colleges. The tour routes are accessible to wheelchairs. Please advise the tour guide of any special needs.

GANNETT HEALTH CENTER

Location: 10 Central Avenue, next to Willard Straight Hall, phone 5-5155

Gannett Health Center offers **emergency** medical services with access to emergency care at the Cayuga Medical Center of Ithaca and referral to specialty medical care. Summer hours are Monday through Friday, 8:30 a.m. to 4:30 p.m. Students visiting for the summer are **not** covered under any Cornell insurance plan, and are expected to pay for any medical and emergency services while they are here.

PUBLIC TRANSPORTATION

The city bus service is TCAT (277-RIDE). Free maps are available on buses and at the Day Hall information desk. Their web site is: <http://tcat.nextinsight.com/allroutes.php>. From the TCAT pages you can access long distance bus service as well which is provided by Greyhound, ShortLine and Trailways. There is also a Cornell – operated bus service connecting the Ithaca and NYC campuses.

BANKING

There are a number of banks in the Ithaca area and they vary in the number of services offered, range and extent of operation and ease of access. There are two that offer on-campus services, Tompkins Trust Company and the Cornell Community Credit Union. The former does not require a student with Cornell ID to have an account before cashing a university check.

Banks in Ithaca:

Cornell Community Credit Union:

East Hill Plaza Branch: East Hill Plaza, Judd Falls Rd., Ithaca
277-1292
Northeast Branch: Triphammer Mall,
Triphammer Rd. & Rt. 13, Ithaca, 257-3011

Cornell Campus Branch: Located on lower level of Cornell Campus Store, 255-5111.

Fleet Bank:

Ithaca Commons Office: 202 The Commons, Ithaca, 273-2331
Cayuga Heights Office: Community Corners, Ithaca, 257-2727
Ithaca South Office: 304 Elmira Rd., Ithaca, 272-7320

Tompkins Trust Company:

Main Office:	110 N. Tioga, The Commons, Ithaca, 273-3210
Plaza Office:	775 S. Meadow St., Ithaca, 273-5600
Pyramid Mall Office:	N. Triphammer Rd., Ithaca, 257-7900
Triphammer Office:	Triphammer Plaza, Ithaca, 257-2656
West End Office:	701 W. Seneca St., Ithaca, 273-6171
Corners Community Center:	Community Corners, Ithaca, 257-5857
East Hill Plaza Office:	East Hill Plaza, Ithaca, 277-2561
Cornell Campus Store Office:	CU campus, 257-1909

HSBC:

Main Office:	Tioga & Seneca St., Ithaca, 273-7111
Triphammer Office:	2248 N. Triphammer Rd., 257-2224
East Hill Plaza Office:	Ellis Hollow Rd., Ithaca, 277-4141
Pyramid Mall Office:	N. Triphammer Rd., Ithaca, 257-4600
Collegetown Office:	06 College Ave., Ithaca, 277-2988
Willard Straight Hall Office:	CU campus, 257-5121

Most of the larger banking companies are members of ATM (automatic teller machine) chains and can be accessed from locations out of town or even out of state. There are many ATMs in the Ithaca area as well as on campus. The ATMs located on campus for the Cornell Community Credit Union are located at Kennedy Hall and the Campus Store, the Tompkins Trust Company at the Campus Store Office, and HSBC at the Willard Straight Hall Office. Check with your bank about obtaining an ATM card. There is usually a charge for using your ATM card from a different bank.

PHYSICAL SCIENCES LIBRARY

The Physical Sciences Library makes available research-level as well as instructional-level resources in organic, inorganic, analytical, polymer, and physical chemistry; and low-temperature, condensed-matter, surface, nuclear, accelerator, and high-energy physics. Materials-research, astronomy, astrophysics, and optics sources are also collected. A variety of specialized online information services, such as Chemical Abstracts Online and the STN International search system, complement the selection of CD-ROM and paper information retrieval tools.

The Physical Sciences Library has a collection of $\approx 95,500$ volumes, $\approx 24,000$ microfilms and serves the Departments of Astronomy, Chemistry and Physics. It provides some texts as well as supplementary reading for undergraduate courses and specialized materials for graduate and faculty research. The Library is located

on the 2nd floor of Clark Hall. Summer hours are 8:00 a.m.-11:00 p.m., Monday-Thursday with somewhat shorter hours Friday-Sunday.

The length of borrowing period varies with the type of book. Most monographs, theses, and serials, other than periodicals can be checked out for a six-month period, newly received monographs and serials for two weeks, and bound and unbound journals may be photocopied in the library only (copy machines are available during all hours the Library is open).

A loan may be renewed provided another reader has not requested the book. A late fee is charged when books and monographs are not returned on time. For more information on the Physical Sciences Library, stop by the 2nd floor of Clark Hall or call 255-4016.

To access the entire Cornell Library selection on line, go to the “Library Gateway” at www.campusgw.library.cornell.edu. This link contains a catalog for all books, journals, references and other helpful research information available at the multiple libraries at Cornell.

OFFICE OF MINORITY EDUCATIONAL AFFAIRS

Raymond A. Dalton, Director, 100 Barnes Hall, Phone 5-3841

Africana Library (John Henrik Clarke Africana Studies Library)
Africana Studies and Research Center, 310 Triphammer Road, 255-3822
Summer hours: Monday-Friday 10 a.m.-5 p.m.

The Africana Library provides a specialized collection concentrating on the social and political dimensions of the history and culture of peoples of African descent. The collection supports the curriculum of the Africana Studies and Research Center and sustained, independent study. It includes basic books, complete collections of works of important writers, and highly selective research materials that complement the collections housed in Olin Library. The Africana Library’s documentation center contains valuable primary source materials, including copies of rare monographs, manuscripts, newspapers, and journal publications on microfilm and microfiche. Those resources focus on especially important material on the American civil rights and Black Power movements.

CORNELL CAMPUS STORE

Located on the Cornell campus across from Willard Straight Hall at 15 Central Avenue.

Open Monday - Friday, 8:30 a.m. - 5:00 p.m. and Saturday, 12 p.m. - 5 p.m.

GROCERY STORES

Students are known to eat occasionally, and not always from vending machines located on the ground floor of Newman Lab, or the 4th floor of Wilson Lab. Below is a list of some of the major grocery stores, open 24 hrs a day, in the Ithaca area:

P&C Food Market	East Hill Plaza	272-5836
"	N Triphammer Rd.	257-7095
Tops Friendly Market	710 S Meadow St.	275-8041
	Pyramid Mall	257-4952
Wegmans Food & Pharmacy	500 S Meadow St.	277-5800

EATING OUT

This can be a difficult enterprise on a student's income, but we encourage you to occasionally treat yourself! Listed below are a few of the more reasonable restaurants in the Collegetown area.

ABC Cafe (308 Stewart Ave.)	vegetarian, sandwiches, desserts
Aladdin's Natural Eatery (100 Dryden Rd.)	variety
Chariot (420 Eddy Street)	pizza, dinners
Cosmopolitan Restaurant (313 College Ave)	Greek, Italian
Greek House (119 Dryden Road)	pizza, dinners
Little Joe's (410 Eddy Street)	Italian
Little Thai House (202 Dryden Road)	Thai, Chinese
Sangam (424 Eddy Street)	Indian
Souvlaki House (315 Eddy Street)	pizza, gyros, dinners
The Nines (311 College Avenue)	pizza

For more choices, check the yellow pages or <http://www.ithaca.ny.us/Commerce/dining.html>.

NEWSPAPERS

Ithaca has a daily newspaper, the *Ithaca Journal*. The *Ithaca Times* is a free weekly newspaper with complete information on entertainment and activities in Ithaca. The *Cornell Chronicle* is another free periodical with information on activities on campus. Both the *Ithaca Times* and the *Cornell Chronicle* appear on

Thursday at many locations around campus. Summer subscriptions can be made to the daily *New York Times*, which is distributed by the *Ithaca Journal*.

MOVIES

Cornell Cinema, Willard Straight Hall, campus, 255-3522

Cornell Cinema offers the widest variety of movies around. Showing a movie nearly every night, the Cornell Cinema rolls everything from the Classics, to documentaries, to recent releases. Movies are \$4.00 (student price). If you are a movie buff, you should consider the ten-ticket pass for \$35 available at the box-office in Willard Straight. Schedules are available in Willard Straight Hall. Also, films are listed in the *Cornell Chronicle*. (The Cinemapolis and the Fall Creek Theater are not for profit theaters.)

Hoyt's Cinema, Pyramid Mall, Triphammer Rd., 257-2700, and Triphammer Mall, Triphammer Rd., 266-0717.

These theaters show first run films at first run prices.

Cinemapolis, 171 E. State St., 277-6115

This cinema shows independent films and has an upscale snack bar.

Fall Creek Theater, 1201 N. Tioga St., 272-1256

A small theater, with occasionally offbeat films.

Video Rentals

Collegetown Video at 103 Dryden Road (607)272-3502

Ithaca Video

622 Cascadilla St., (607) 272-5500

East Hill Plaza (607) 277-5152

Cayuga Mall (607) 257-8825