
Agenda / Logistics



John J. Barnard

**US - Japan Workshop on Heavy Ion Fusion
and High Energy Density Physics**

December 18 - 19, 2008

**Lawrence Berkeley National Laboratory and
Lawrence Livermore National Laboratory**

Welcome to the eleventh US/Japan workshop on HIF/HEDP

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|-------------------------|---------------------|
| 1. March 13-15, 1997 | Osaka |
| 2. November 12-14, 1997 | Berkeley |
| 3. December 7-9, 1998 | Tokyo |
| 4. March 11, 2000 | San Diego |
| 5. December 7-8, 2000 | Tokyo |
| 6. March 4-5, 2002 | Berkeley, Livermore |
| 7. June 10-12, 2004 | Princeton |

<http://nonneutral.pppl.gov/HIF04/usjapan.php>

- | | |
|--------------------------|-----------------------|
| 8. September 28-30, 2005 | Utsunomiya University |
|--------------------------|-----------------------|

<http://www.ee.utsunomiyau.ac.jp/~kawatalab/workshop/USJapanWorkshop.html>

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| 9. December 18-20, 2006 | Berkeley, Livermore |
|-------------------------|---------------------|

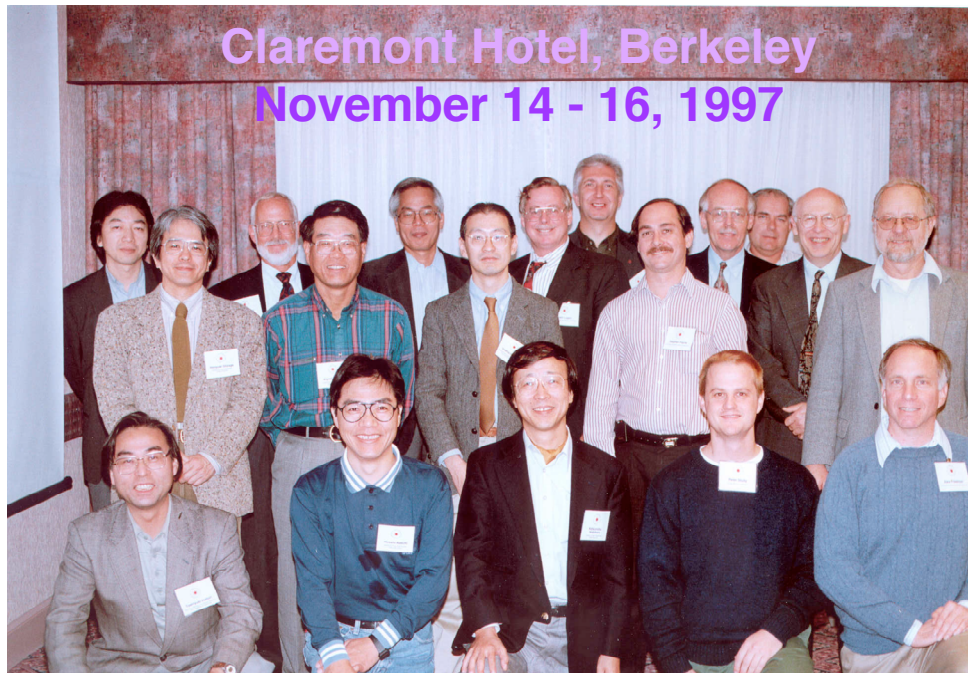
<http://hifweb.lbl.gov/public/USJapanWorkshop2006/>

- | | |
|---------------------------|---------------------|
| 10. September 17-19, 2007 | Tokyo |
| 11. December 18-19, 2008 | Berkeley, Livermore |

<http://hifweb.lbl.gov/public/USJapanWorkshop2008>



Pictures from earlier workshops ...



Claremont Hotel, Berkeley
November 14 - 16, 1997



University of Tokyo,
December 7 - 9, 1998



Lawrence Berkeley National Laboratory, March 4, 2002

Pictures from earlier workshops ...

Utsunomiya University, September 28 - 30, 2005



Agenda for Thursday, December 18, 2008, LBNL

8:30 - 9:00 Coffee and Danishes

Session 1: Fusion -- John Barnard, chair

9:00 - 9:05 J. Barnard (LLNL) Agenda/Workshop Logistics

9:05 - 9:35 G. Logan (LBNL) -- A new vision for Heavy Ion Fusion

9:35 - 10:05 S. Kawata (Utsunomiya U.) --Robust Heavy Ion Fusion Target

10:05 - 10:20 Coffee Break

Session 2: Accelerators I --Shigeo Kawata, chair

10:20 - 10:50 K. Takayama (KEK) -- KEK Digital Accelerator and its Beam Dynamics

10:50 - 11:20 S. Lund (LLNL) -- Beam Stability and Control in Solenoidal Transport Channels

11:20 - 13:00 Lunch at LBNL cafeteria

Session 3: Experiments -- Yoshiyuki Oguri, chair

13:00 - 13:30 P. Seidl (LBNL) NDCX beam experiments and plans

13:30 - 14:00 J. Hasegawa (Tokyo Tech) Focusing of MeV Ions Using Tapered Insulator Tubes

14:00 - 14:30 F. Bieniosek (LBNL) -- WDM experiments and plans

14:30 - 15:00 Tour of the experiments -- Frank Bieniosek/Peter Seidl/Pavel Ni

15:00 - 15:30 Coffee Break

Session 4: Warm Dense Matter I: F. Bieniosek, chair

15:30 - 16:00 K. Horioka (Tokyo Tech): Beam and/or Pulse Power Driven WDM Science in TIT

16:00 - 16:30 I. Kaganovich (PPPL): Collective Effects on Focusing of Intense Ion Beams in Neutralized Drift Compression

16:30 - 17:00 R. More (LBNL) -- Science of Warm Dense Matter

17:00 - 18:30 Individual discussion/break

18:30 - 20:30 Working Dinner at Angelines (Berkeley)

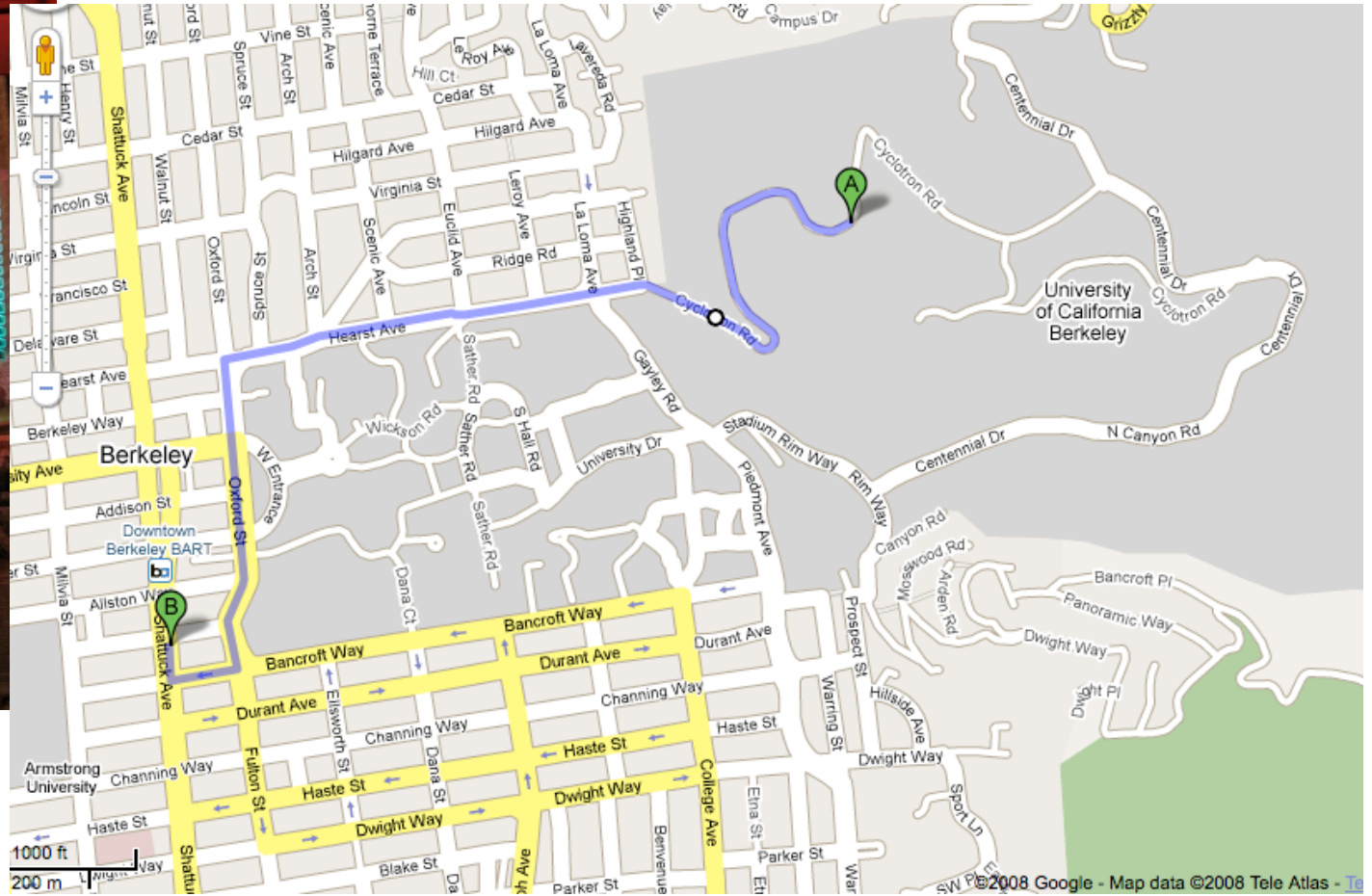
The Heavy Ion Fusion Virtual National Laboratory



Dinner tonight: Angeline's Louisiana Kitchen at 6:30 pm



2261 Shattuck Avenue
(between
Bancroft and Kitteridge)
Berkeley, California 94704



Dinner attendees: J. Barnard, J. Hasagawa, E. Henestroza, K. Horioka, I. Kaganovich, S. Kawata, G. Logan, J. Kwan, S. Lund, H. Lee, P. Ni, Y. Oguri, H. Qin, K. Takayama, J-L. Vay

The Heavy Ion Fusion Virtual National Laboratory



Menu (Cost: 20\$, but free for our Japanese guests)

Appetizer: Hush puppies

1st course: Mixed green salad

Angeline's gumbo

Entrees: Jambalaya with sauce piquant

Baby back ribs with house made Louisiana style

bourbon BBQ sauce and potatosalad

Beverage: Glass of white or red wine

Dessert



Friday's agenda (December 19, 2008) at LLNL

8:00 Meet at Ashby Ave BART station for car pool ride to LLNL

9:00 Badging at LLNL -- Badge office (Westgate)

9:55 Assemble in B543 Grand Canyon Room

10:00 – 10:30 Ed Synakowski (LLNL) -- Introduction to LLNL's Fusion Energy Program

10:45 -- Leave B543 for NIF tour

11:00 - 12:00 Tour of NIF

12:30 - 13:30 Lunch at Cattlemen's Restaurant in Livermore

13:45 Session 5 – LIFE and Warm Dense Matter II -- Alex Friedman, chair

13:45 – 14:15 Ryan Abbott (LLNL) – Laser Inertial Fusion-fission Energy (LIFE) Overview

14:15 – 14:45 Yoshiyuki Oguri (Tokyo Tech)-- Energy Deposition Profile of Heavy-Ions in Warm Dense Targets

14:45 – 15:15 Pavel Ni (LBNL) – First Experimental Results of WDM Target Experiments

15:15 - 15:30 Coffee break

15:30 Session 6 -- Accelerators II -- Kazuhiko Horioka, chair

15:30 - 16:00 Hong Qin (PPPL) -- Non-Abelian Courant-Snyder theory for coupled transverse dynamics of charged particles in electromagnetic focusing lattices

16:00 - 16:30 Alex Friedman (LLNL) -- NDCX II Accelerator Design

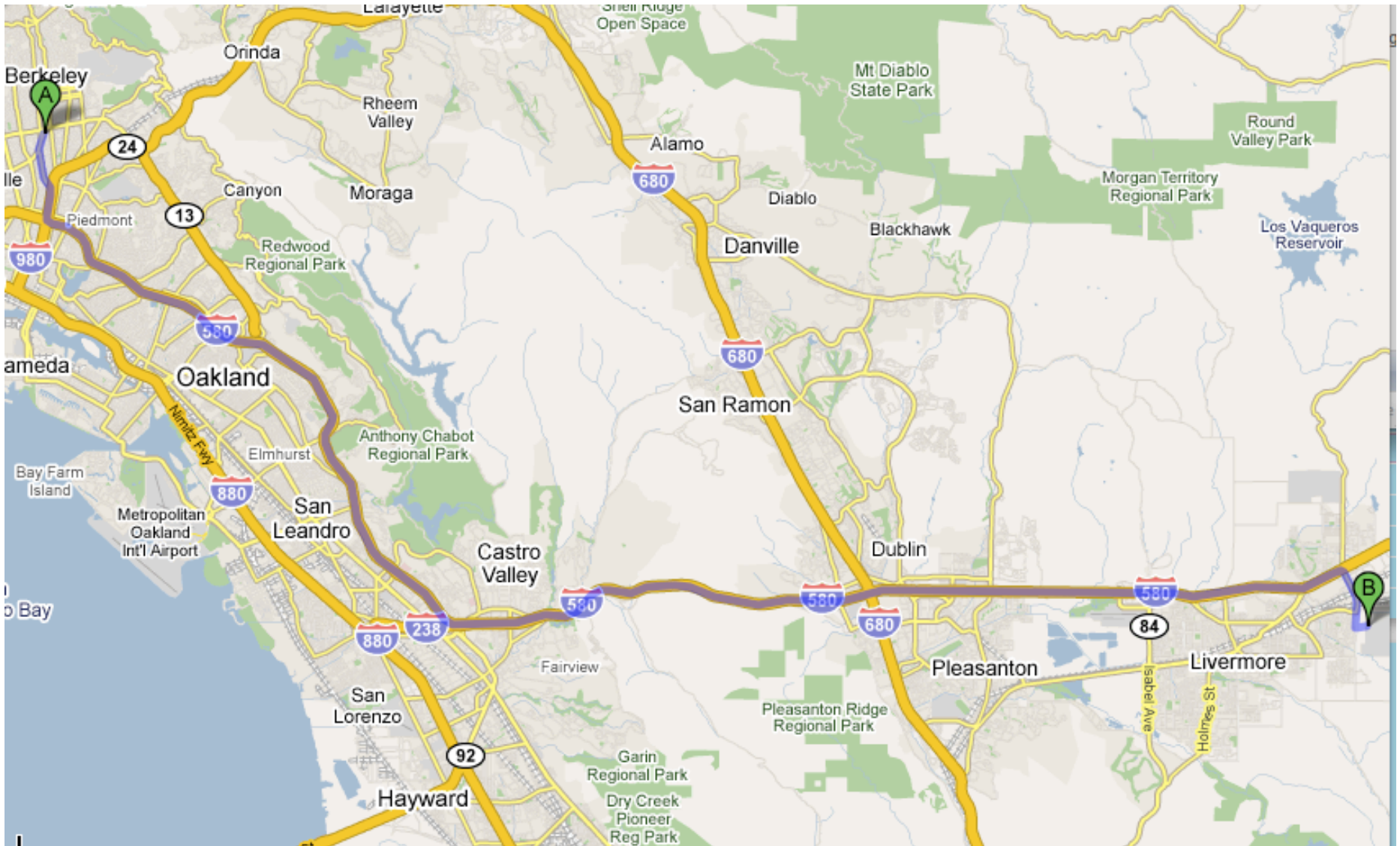
16:30 – 16:45 Discussion/ Workshop closing

16:45 Leave for Berkeley

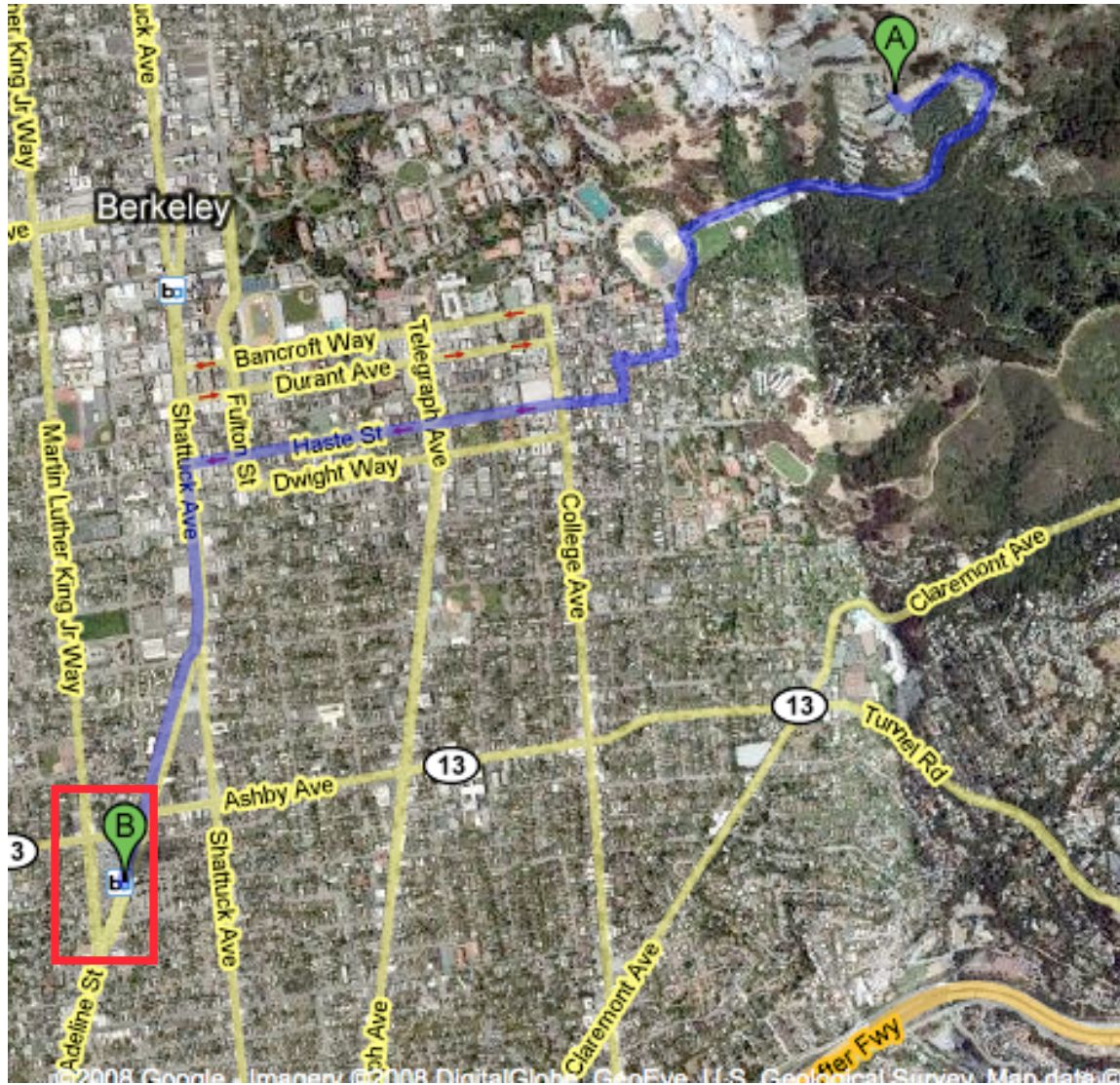
17:45 Arrive at Shattuck Hotel



Map to LLNL



Ashby BART station



Directions to LLNL from Ashby BART station







Driving directions to Westgate Dr, Livermore, CA 94550

39.0 mi – about 43 mins (up to 55 mins in traffic)



Ashby BART



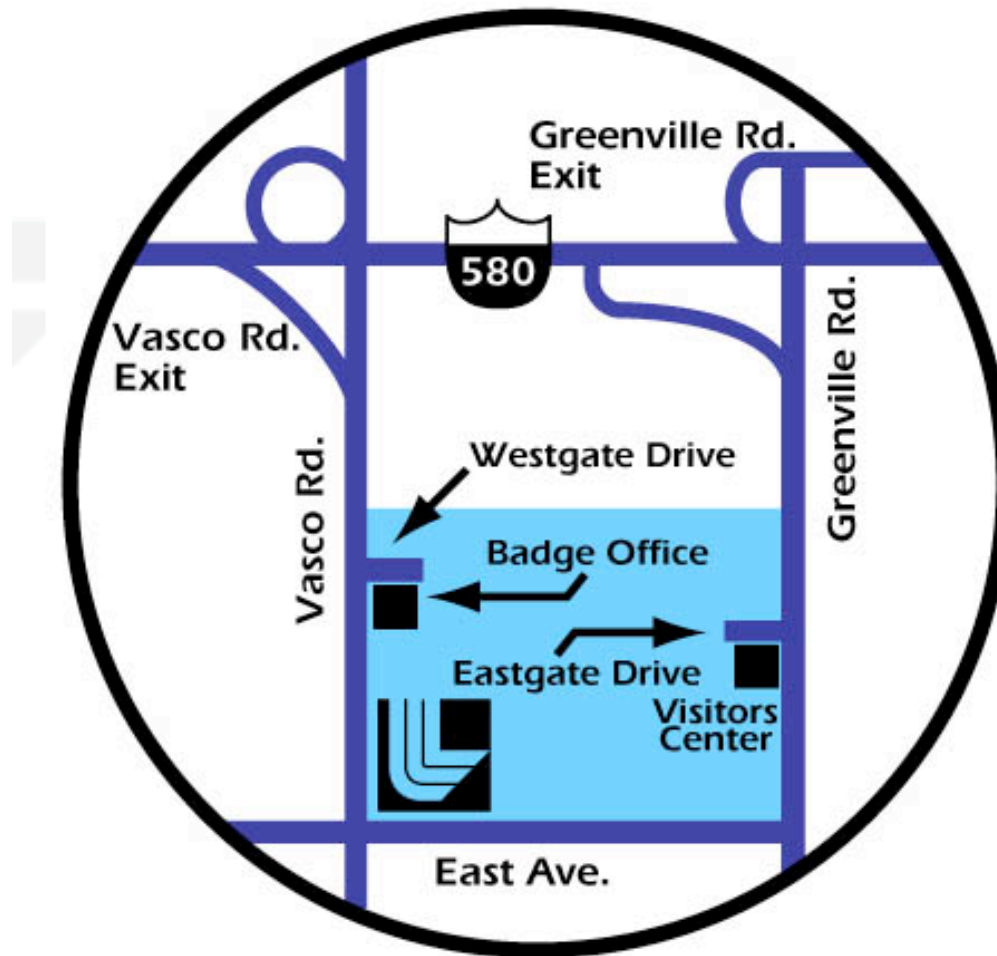
1. Head **south** on **Adeline St** toward **Woolsey St**  0.4 mi
2. Continue on **Martin Luther King Jr Way**  0.9 mi
3. Take the ramp to **I-580 E**  0.2 mi
4. Keep **left** at the fork, follow signs for **I-580 E/ Hayward** and merge onto **I-580 E**  35.6 mi
5. Take exit **55** to merge onto **S Vasco Rd**  1.6 mi
6. Turn **left** at **Daphne Dr**  56 ft
7. Continue on **Westgate Dr** 0.2 mi

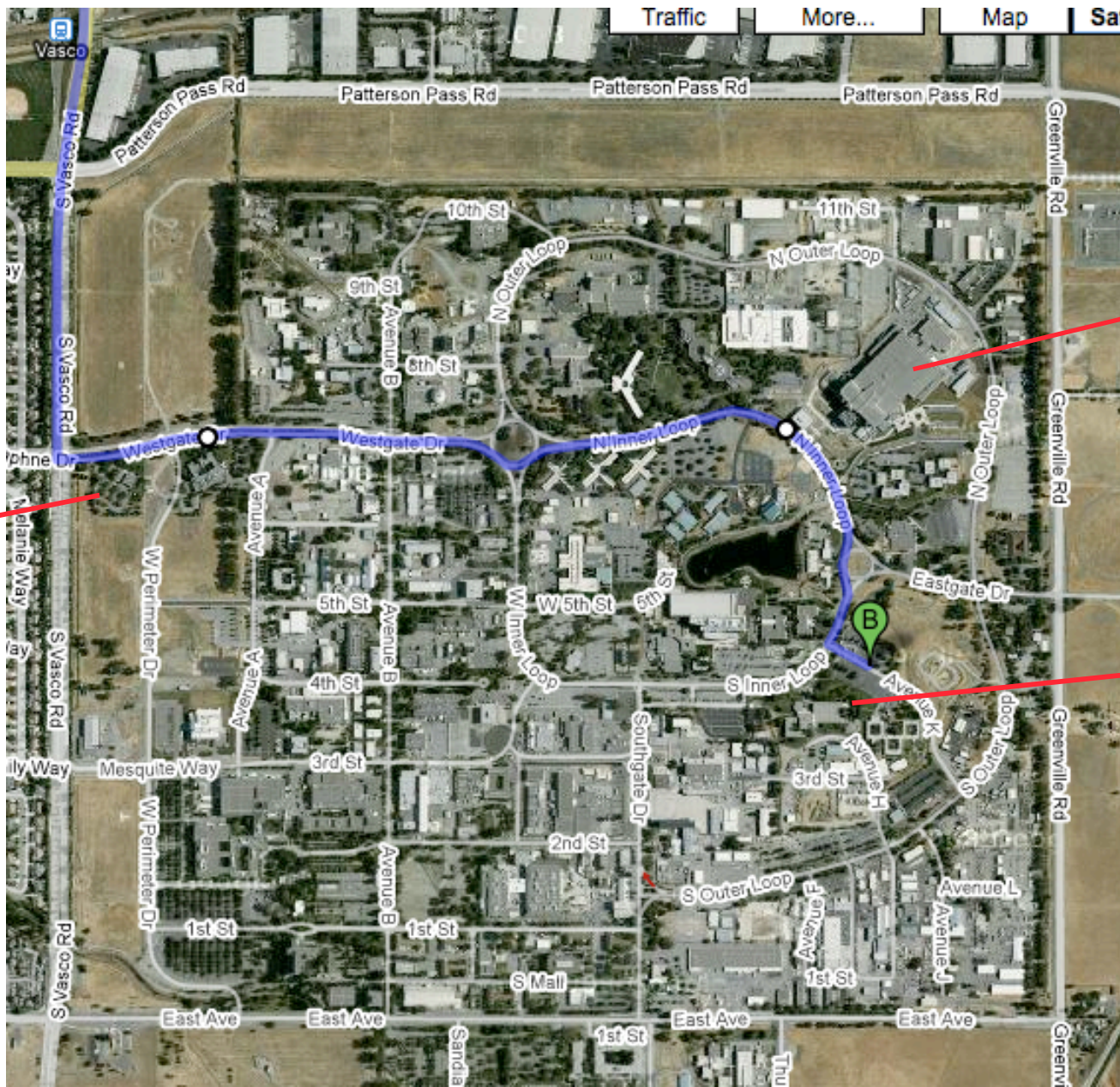


Westgate Dr
Livermore, CA 94550



Getting to LLNL on Friday





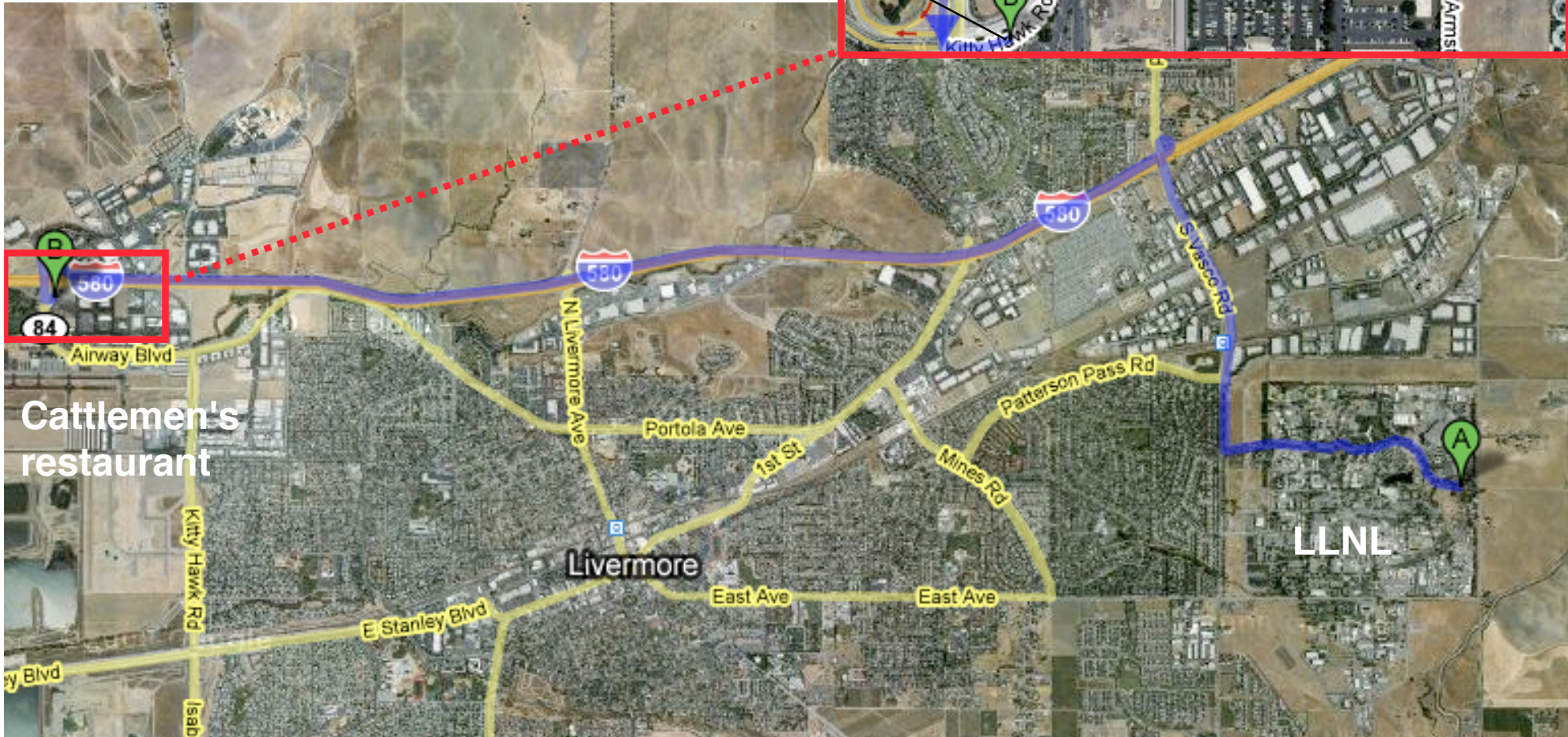
**Badge
office**

NIF

**Building
543**

Cattlemen's Restaurant in Livermore

Cattlemen's Restaurant
2882 Kitty Hawk Road,
Livermore, CA 94551

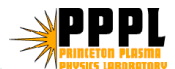


While at LLNL please note the following restrictions:

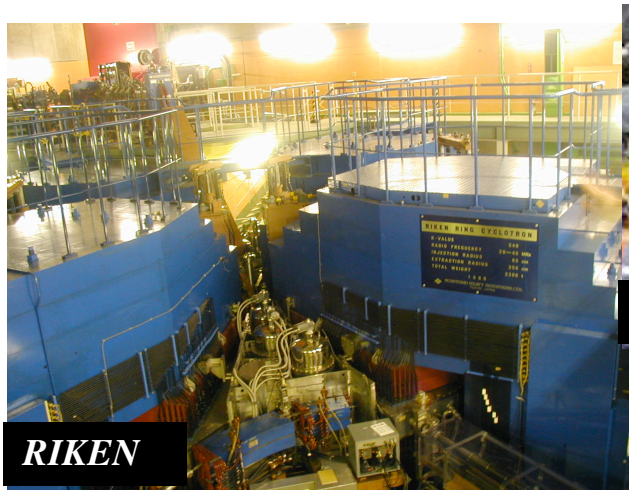
1. Make sure that you bring the **required ID** (depending on visa status). (Foreign nationals require escort).
2. **Cameras** must be left in the cars and no photographs taken while on the LLNL site.
3. **Cell phones** are permitted into the buildings (even those phones with cameras) but no photographs may be taken while on the LLNL site.
4. **Computers** should be left in the cars while on the LLNL site.
5. If you are **giving a talk** tomorrow at LLNL, please provide me with a copy today so that I may put it on my computer to show at LLNL. (Also, even if you are talking today, please give me a copy of your talk).



Extras



Recent US exchanges to Japan have taken place at six institutions



RIKEN



Utsunomiya University



Tokyo Institute of Technology-Ookayama and Suzukakedai Campuses



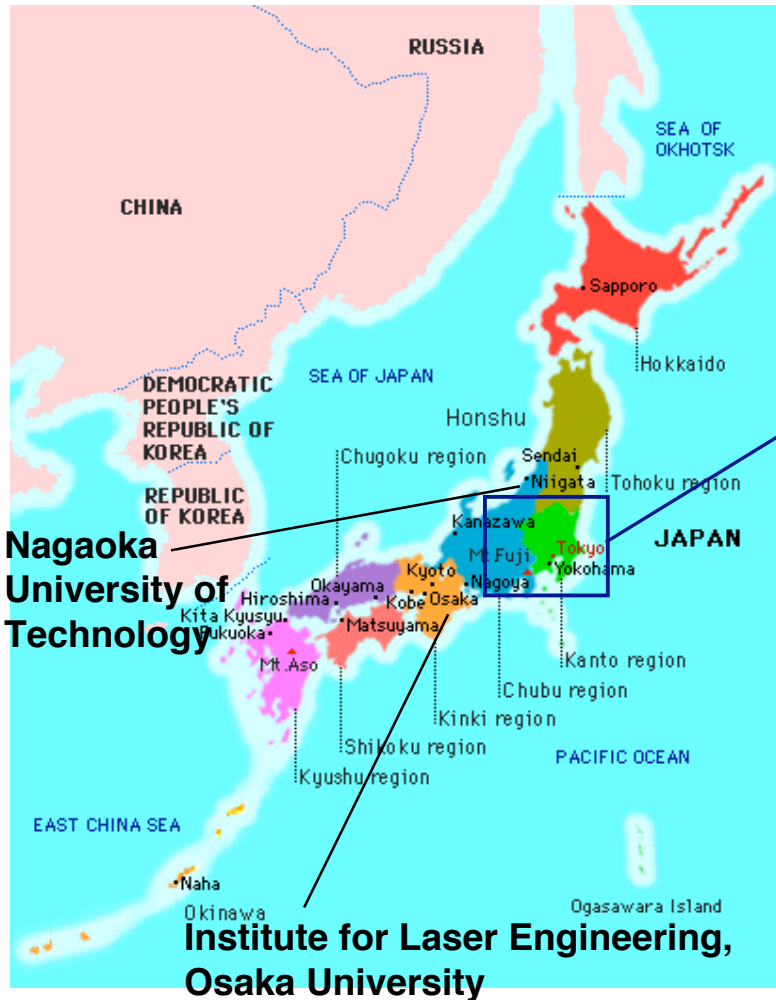
KEK



JAERI-Naka



Location of institutions in Japan



Utsunomiya University
JAERI
KEK



RIKEN
TIT-Suzukadai
TIT-Ookayama

Nagaoka
University of Technology
Institute for Laser Engineering,
Osaka University

