The University of Pennsylavia Conference
Computational Molecular Biology and Finite Models
to honor the 50th anniversary of ENIAC

sponsored by:

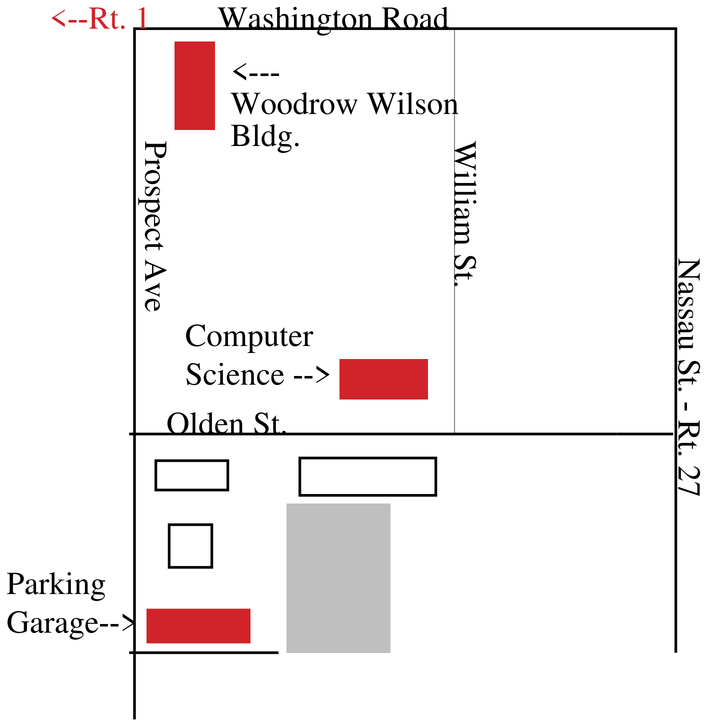
The University of Pennsylvania Training Program
in Computation Biology

DIMACS - Discrete Mathematics and Computer Science

National Science Foundation

Organizer: Tandy Warnow

May 17 - 19, 1996


<--Rt. 1
Washington Road
<---
Woodrow Wilson
Bldg.
Prospect Ave
William St.
Nassau St. - Rt. 27
Computer
Science -->
Olden St.
Parking
Garage-->

held at
Princeton University
Princeton, New Jersey

Organizer:
Tandy Warnow
Dept. of Computer & Information Science
University of Pennsylvania
Philadelphia, PA 19105-6389
`tandy@central.cis.upenn.edu`

Friday morning's sessions will be held at: Woodrow Wilson School (located on the corner of Washington Road and Prospect Avenue) in Dodd Auditorium. Lunch and the afternoon sessions will be held in the Computer Science Dept. located at the corner of William & Olden Streets.

Saturday and Sunday sessions will also be in the Large Auditorim of the Computer Science Dept.

Friday, May 17

Princeton University
Woodrow Wilson School
Washington Rd. & Prospect
Dodds Auditorium

8:30-9 a.m. Introductions

9-10:30 STRUCTURE:

Mona Singh

Craig Benham

10:30 -10:45 *Coffee Break*

10:45-11:30 Peter Shor

11:30 - 1 *Lunch*

Lunch & afternoon sessions at Dept. of Computer Science. 35 Olden Street, Rm. 104, Large Auditorium

1:00 - 3:30 GENOME REARRANGEMENTS

Pavel Pevzner

David Sankoff

"Conserved sigment identification"

John Paul Vergara

"Sorting by bounded block move"

3-3:30 *Coffee Break*

3:30-4:15 Rob Lipschutz
TBA

4:15-4:45 Discussion *(alternatively, another talk, and the bus leaves later than 4:45)*

4:45 Bus leaves for Penn for banquet

9:00 Bus returns from Penn

Saturday, May 18

8:30-9 *Coffee Break*

9-11:00 DATABASES:

Sue Davidson

Victor Markowitz

Chris Overton

Matti Nykanen

Terry Gaasterland

11-11:15 *Coffee Break*

11:15-12 Sampath Kannan

"An overview on the phylogeny problem"

12-1:30 *Lunch*

1:30-2:45 CONTRIBUTED TALKS

Paul Kearney

"Tree reconstruction from dissimilarity orders"

Bhaskar Dasgupta

"On distances between phylogenetic trees"

Spencer Muse

"Exploring gene function with molecular studies of evolution"

2:45-3:00 *Coffee Break*

3:00-4:30 NEUROBIOLOGY:

Eero Simoncelli

Bill Bialek

"What is the brain trying to compute?"

4:30-6:00 CHAMPAGNE RECEPTION & POSTER SESSION

Evening Session on education, limited to small group

Sunday, May 19

9-10:30 GENOME REPEATS:

Gary Benson

Jeanette Schmidt

10:30 - 10:45 *Coffee Break*

11-12 Mike Waterman

12-1:30 *Lunch*

1:30-3:30 CONTRIBUTED TALKS:

Elizabeth Sweedyk

"Approximating the shortest superstring"

Anthony Bonner

"Good maps are straight"

Aleksander Miloslavljevic

"Genome-scale DNA sequence recognition by hybridization to short oligomers"

Peter Yianilos

"Significantly lower entropy estimates for natural DNA sequences"

3:30-3:45 *Coffee Break*

3:45-5:30 Josh Lederberg & Craig Benham:

Past/Future of the field

5:30 Conclusion of the Conference

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Committee:
Craig Benham (Mt. Sinai Sch. of Medicine)
Gary Benson (Mt. Sinai Sch. of Medicine)
Bonnie Berger (Math., MIT)
Susan Davidson (CIS, Penn)
Sampath Kannan (CIS,Penn)
Rob Lipschutz (Affymetrix)
Joshua Lederberg (Rockefeller)
Pavel Pevzner (Math, USC)
Jeanette Schmidt (Brooklyn Polytechnic)
Peter Shor (AT&T)

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Local Arrangements:
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