

Program:

GLCW III

CWRU

5-7 MAY 1995

THURSDAY MAY 4
THE GLIDDEN HOUSE
8 → 10 pm Informal Welcome Reception

FRIDAY May 5
Rm 301 Rockefeller Physics Bldg.

THE EARLIEST UNIVERSE (L. MCLERRAN, CHAIR)

10:30 COFFEE

11:00 Welcome

11:05 Hideyuki Umeda Inflation and topological defects

11:30 Jim Cline Creating Matter at the Electroweak Phase Transition

11:55 Tanmay Vachaspati Topological Incarnations of Electroweak Defects

12:20 Discussion

12:30 LUNCH (Tomlinson Hall)

1:30 Lawrence Krauss The Case for a Cosmological Constant

1:55 Hong Liu Zero Modes on Perturbed Electroweak Strings

2:20 Andrew Heckler Electroweak Phase Transition Dynamics: Nucleation and Evolution

2:45 Coffee

THE NOT-SO-EARLY UNIVERSE (L. KRAUSS CHAIR)

3:15 Pete Kernan Big Bang Nucleosynthesis Mumbo Jumbo

3:35 Terry Walker What's wrong with BBN?

3:55 Mike Tartaglia WIMP Searches

4:15 Glenn Starkman Neutrinos as Hot plus Cold Dark Matter

4:35 Michael Turner The Many Flavors of Cold Dark Matter

5:00 return to Glidden

5:45 Vans leave Glidden House for Gwynn Estate

SATURDAY MAY 6
ROCKEFELLER PHYSICS BLDG Rm 301

IS THIS REALLY THE EARLY UNIVERSE? (A. OLINTO CHAIR)

9:00 Paul Ricker Cosmic Recombination

9:20 Arthur Kosowsky Cosmological Parameters from the CMB Power Spectrum

9:40 Pablo Laguna The Imprint of Proper Motion of Structures on the CMB

10:00 Albert Stebbins Effects of Neutrino Mass on the CMBR spectrum
10:20 Coffee Break
10:50 Andrew de Laix Structure Formation With Isocurvature Hot Dark Matter
11:10 Visnja Katalinic The evolution of MHD modes through recombination.
11:30 Angela Olinto The Role of Magnetic Fields in Structure Formation
11:50 Josh Frieman Ultra-light Cosmology

12:10 LUNCH

THE JUST YESTERDAY UNIVERSE (A. JAFFE CHAIR)

1:30 Larry Widrow (Title TBA)
1:50 Andrew Jaffe H_0 Observations and odds on Cosmological Parameters
2:10 Roman Scoccimarro Loop Corrections in NonLinear Perturbation Theory
2:30 Barbara Ryden Cosmological Distortions in Redshift Space
2:50 Rick Watkins: Comparing Estimates of Large Scale Bulk Flows
3:10 BREAK FOR FREE AFTERNOON

7:00 Van Departs for Flats (optional)
12:00 Van Returns from Flats

SUNDAY MAY 7
ROCKEFELLER PHYSICS BLDG Rm 301

9:00 Gordon Squires Recent Results from Weak Gravitational Lensing
9:20 Mary Crone Substructure in Clusters as a Cosmological Test
9:40 Gus Evrard: Crisis? What Crisis?

TODAY'S UNIVERSE

10:00 Marc Kamionkowski Followup observations of microlensing events
10:20 Coffee
10:50 Geza Gyuk Gravitational MicroLensing and the Halo Baryon Fraction
11:10 Bruce Allen Gravitational Radiation from Realistic Cosmic String Loops
11:30 Gunter Sigl What can we learn from the highest energy cosmic ray spectrum?
11:50 Sangjin Lee Very High Energy Cosmic Rays: Challenges

FORMAL CONFERENCE ENDS

12:20 Vans leave for Vallevue Farm Barbecue and Volleyball
3:00 Vans return to Glidden

attendees as of May 3:

Organizing Committee

Glenn Starkman
Pete Kernan
Lawrence Krauss
Tanmay Vachaspati
Hong Liu
Norman Cheng

Participants

Mark Abney
Bruce Allen
Philippe Brieu
Jim Cline
Craig J Copi
Mary Crone
August Evrard
Joshua A. Frieman
Jim Fry
Evalyn Gates
Tony Gherghetta
Dave Graff
Geza Gyuk
Andrew Heckler
Andrew Jaffe
Visnja Katalinic
Marc Kamionkowski
Edward Kolb
Arthur Kosowsky
Pablo Laguna
Andrew de Laix
Kimyeong Lee
Sangjin Lee
Larry McLerran
Angela Olinto
Zack A.M. Protojeros
Paul Ricker
Barbara Ryden
Roman Scoccimarro
Gunter Sigl
Gordon Squires
Albert J. Stebbins
Matt Strassler
Mike Tartaglia
David Thomas

Mike Turner
Hideyuki Umeda
Ioav Waga
Robert G. Wagner
Terry Walker
Rick Watkins
Larry Widrow
Erick J. Weinberg
Yu Zhang

GLCW III

Case Western Reserve University May 5-7 1995

This is the last notice you will receive before you attend the meeting. It contains the tentative program of the meeting, a list of participants, information about social events and the hotel, and directions to the hotel from the airport. The meeting itself begins on Friday at 11 am (coffee at 10:30 am) and will be held in the Rockefeller physics building at CWRU. The dept. is a short walk from the hotel (the Glidden House), and a map will be provided at the front desk of the hotel for you. There will be an informal reception from 8:00 → 10:00pm on Thursday evening at the Glidden House to welcome participants, as well as hand out materials, and collect the \$ 15 reg fee.

Hotel

Attendees will be housed at an inn located on campus, in University Circle, called Glidden House. It comprises the original mansion of the Glidden family (Glidden paints) and additions. The hotel provides continental breakfast in the breakfast room to all guests free of charge. A list of a number of other restaurants nearby that serve a full breakfast will be provided. The official address of the hotel is: 1901 Ford Drive in University Circle, Cleveland, OH 44106; 216-231-8900. University Circle, which surrounds the hotel and university, contains one of the greatest concentration of cultural activities which can be found anywhere. The museum of art, museum of natural history, auto and aviation museum, Severance Hall, home of the Cleveland Orchestra, are all located within walking distance.

Directions from Hopkins Airport

1. Taxi: Tell the driver to take you to Glidden House in University Circle at CWRU near the intersection of Euclid and Mayfield Aves.
2. Rapid Transit (for those arriving before 7-8 p.m. with minimal luggage): Take RTA rapid from within the airport terminal (\$1.50; no change made under \$5.00). You get off at the "University Circle" stop (about 40min); there is a binary choice of exit doors, but choose the one that lies in the direction the train was traveling. If it is before 6:00p.m. you can take a free shuttle bus outside the station right to Glidden house. **Otherwise, it is about a 15 minute walk to the hotel from the station.** Proceed left when you leave the station up the sidewalk about 100 ft. parallel to the tracks to a bridge over the tracks. Turn left and cross over the bridge; you will be heading towards a big parking garage on campus. At the garage you will meet Adelbert Road. Turn left and follow Adelbert until it ends, at Severance Hall (Euclid Avenue). Cross Euclid and turn left. After about 50 ft, just past Severance Hall you will see a road on your right (East Blvd) which winds along beside a lagoon. Walk along this road about 1/3 of a mile. You will pass the Cleveland Art Museum on your left. Shortly past that, immediately after passing the CWRU Law School on your right you will see Juniper Rd. Turn right, and the Glidden House will be about 75 feet in front of you at the intersection of Juniper and Ford Drive.

If you are going directly to the physics dept from the subway, follow the above directions until you pass the parking garage. At this point you will be about 50 yards from the physics bulding. Ask someone where Rockefeller building is.

3. Car: Take I-71 North to I-90 East. Exit I-90 at Martin Luther King Drive and continue along the drive about 2 miles until you get to 'University Circle', signaled by the first major intersection, and traffic light, that you encounter (E 105 Street). Go through the light and you will immediately encounter a traffic circle. Take the second right (about 1/2 the way around the circle) (East Blvd.) Travel on East Blvd about 1/3 mile, past one traffic light, past the Museum of Natural History and the Western Reserve Historical Society Museum, and you will get to a fork in the road with Ford Drive on your left. Take Ford Drive and the Glidden House will be straight ahead on your left about 75 feet.

Social Events

1. Thursday evening: Welcome reception at Glidden House, 8:00 → 10:00pm
2. Friday evening: Dinner at the Gwynn estate, on Lake Erie. Vans will leave from Glidden at 5:45 pm. (There is a \$15 charge for accompanying adults who are not registered conference participants.)
3. Saturday afternoon free for museum hopping etc. Sat night: open. A van will be available to take interested participants to the "flats", a location down by the lake containing restaurants, bars etc. Others can partake of the restaurants in the area around the campus and hotel.
4. Sunday afternoon: Lunch-Barbecue-Volleyball-Softball at the Squire Valleevue Farm, owned by the University. **THE ANNUAL GLCW SOFTBALL GAME WILL BE PLAYED AT THIS TIME.** Vans will leave from Dept at 12:30. A van will be available for those who wish to go directly to the airport from the farm after lunch.