



Hunt Institute for Botanical Documentation
5th Floor, Hunt Library
Carnegie Mellon University
4909 Frew Street
Pittsburgh, PA 15213-3890
Telephone: 412-268-2434
Email: huntinst@andrew.cmu.edu
Web site: www.huntbotanical.org

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About the Institute

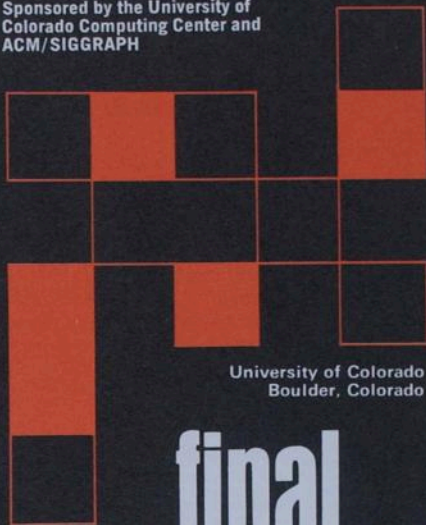
The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

conference
on
computer graphics
and interactive
techniques

JULY 15-17, 1974

Sponsored by the University of
Colorado Computing Center and
ACM/SIGGRAPH



University of Colorado
Boulder, Colorado

final
program

* COMPUTER GRAPHICS SEMINAR *

*****JULY 18 9:30 A.M.*****
COLLEGE OF BUSINESS
AND ADMINISTRATION
ROOM 249

WITH

DR. KENNETH KNOWLTON
BELL TELEPHONE LABS
MURRAY HILL, NEW JERSEY

Ken Knowlton is an internationally known programmer-innovator of computer graphics systems. He was one of the fore-runners in computer animation with his BEFLIX language (1964) and EXPLOR (1968). He has made 16 films with artists Stan Vanderbeek and Lillian Schwartz. He has also worked with other scientists in visual perception, simulation, image processing, and displays of scientific data, using his techniques.

Knowlton will be making an informal slide and film presentation on the different graphics systems he has developed, stressing applications in mathematics and statistics, the biological sciences, computer-aided art, and animation. Example displays from his EXPLOR system (EXPLICIT Patterns from Local Operations and Randomness), which has been implemented on the University of Colorado computer, will also be shown.

Following Knowlton's presentation, a selected subset of films from the First International Computer Film Festival, held in Olympia, Washington, will be shown by Mr. Richard Speer, Festival Director.

Both Knowlton's presentation and the film festival hi-lites will be open to the public.

Presented through the
Taximetrics Laboratory, EPO Biology Dept.

GENERAL INFORMATION

Location

Conference sessions will be held in the Chemistry Building, the Duane Physics Building, and JILA tower. The reception and Manufacturers/Users Session on Sunday, July 14, will be held in the Arnett Hall Lounge and the Fleming Law Building courtroom respectively. Campus maps will be available at registration.

Registration at the Conference

All Conference participants must register. The registration schedule is as follows:

Sunday July 14, 1974	-	8-10am, Kittredge Commons and Conference motels.
Monday July 15, 1974	-	8am-5pm, Chemistry 140
Tuesday July 16, 1974	-	8am-5pm, Chemistry 140
Wednesday July 17, 1974	-	8am-2pm, Ground Level, Duane Physics Building (east wing)

Fee

The fee for registration at the conference is \$70. The fee includes admissions to all conference sessions and coffee breaks. It does not include housing or meals.

Emergency Messages

Emergency messages for conference participants can be relayed by calling (303) 449-4332.

Parking

Parking for participants is available near the Kittredge complex. Parking permits will be issued to participants. Kittredge is within walking distance of campus buildings where conference sessions are scheduled.

Bus Schedule for Conference

Bus service will be provided to and from conference motels and residence halls in the morning, noon, and evenings.

Social Events

Reception and Manufacturers/Users Session

There will be a reception and Manufacturers/Users Session on Sunday evening, July 14, 1974. The cash bar reception will be held from 6:00pm to 10:00pm in Arnett Residence Hall Lounge. The Manufacturers/Users Session will be held concurrently with the reception from 7:00 to 9:00pm in the Fleming Law School court room.

Steak Fry

A steak fry on Flagstaff Mountain is scheduled Monday, July 15, at 6pm. The fee for participants housed at Kittredge complex is 50 cents. For other participants the fee is \$3.85 for adults and \$2.85 for children. Ticket sale closes at noon on Monday, July 15. Bus transportation will be provided to Flagstaff Mountain. Buses will leave from Kittredge Commons and Conference motels beginning at 5:15pm.

All-Day Bus Tour.

For interested participants and their families, an all-day bus tour of the Front Range of the Rockies has been arranged for Tuesday, July 16. The tour will include a scenic drive to Estes Park via Trail Ridge Road and return on the Peak-to-Peak Highway through Nederland. Fee for the tour is \$10 per person (includes a box lunch). Ticket sale closes at noon on Monday, July 15. The bus will leave from Kittredge Commons at 9:30am.

CONFERENCE ON COMPUTER GRAPHICS AND INTERACTIVE TECHNIQUES

UNIVERSITY OF COLORADO

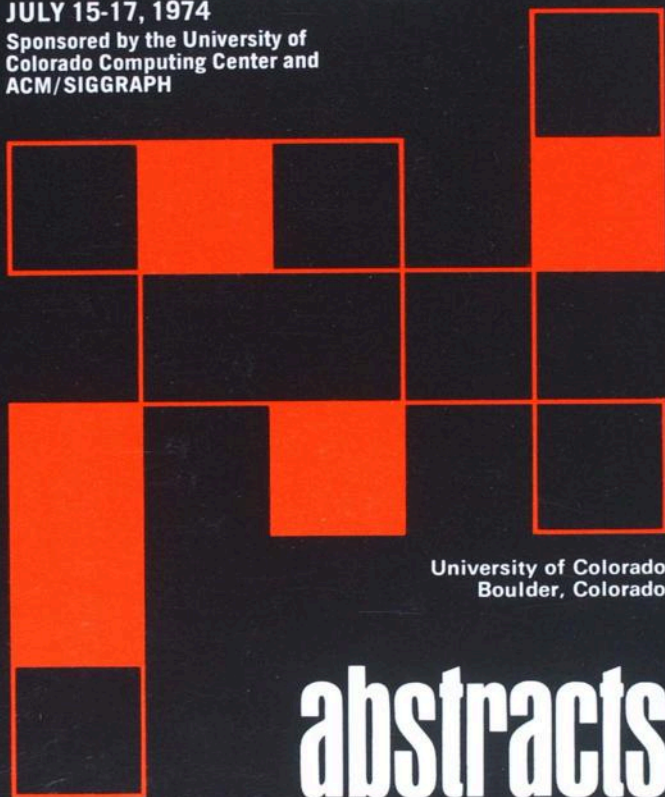
BOULDER, COLORADO

	SUNDAY JULY 14	MONDAY JULY 15	TUESDAY JULY 16	WEDNESDAY JULY 17	
8:45		OPENING (R. L. SCHIFFMAN)			
9:00		GENERAL COMPUTER GRAPHICS (J. A. MEADS)	GRAPHIC PROGRAMMING LANGUAGES (A. P. LUCIDO)	GENERAL ENGINEERING (KRUEGER)	BUSINESS GRAPHICS (CHAUHAN)
10:00		COFFEE			
10:15		THE COMPUTER GRAPHICS ENVIRONMENT (J. A. MEADS)	COFFEE	COFFEE	
10:30					
10:45			DATA STRUCTURES DESIGN & PROCESSING (R. WILLIAMS)	COMPUTER-AIDED DESIGN (DIORIO)	CARTOGRAPHY (PEUCKER)
12:00		LUNCH	LUNCH	LUNCH	
1:30		SYSTEMS CONFIGURATIONS (A. VAN DAM)	DISPLAY TECHNOLOGY (D. F. JONES)	URBAN & REGIONAL PLANNING (SCHNEIDER)	BIOLOGY AND MEDICINE (NEWTON)
3:00		COFFEE	COFFEE	COFFEE	
3:15		PORTABLE GRAPHICS (J. GEORGE)	IMAGE DISPLAY TECHNIQUES (J. A. MEADS)	CIVIL ENGINEERING (FEESER)	STATISTICS AND DATA ANALYSIS (DIXON)
5:00			ANIMATION (ANDERSON)	ARCHITECTURE (TEICHOLZ)	
6:00			SUPPER		
7:00	PRE-RECEPTION	STEAK FRY	INTERACTIVE INPUT TECHNIQUES (N. NEGROPONTE)		
7:00	MANUFACTURERS/USERS SESSION (R. L. SCHIFFMAN)				
9:00	POST-RECEPTION				

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abstracts