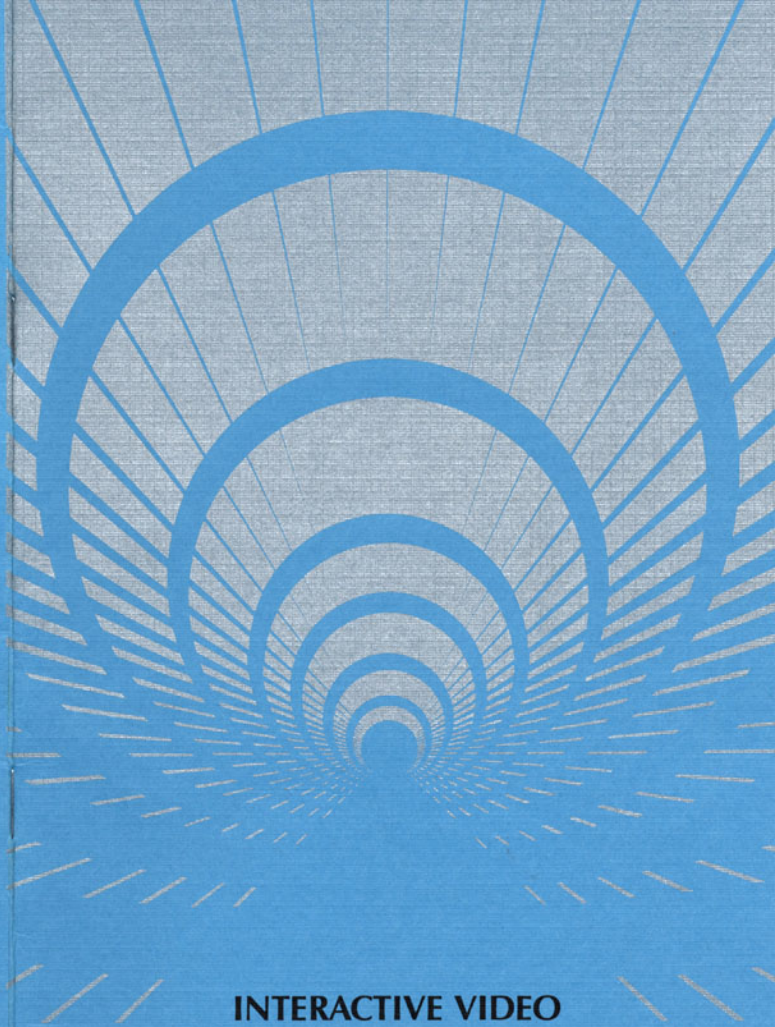
University of Pittsburgh

PROGRAM IN EDUCATIONAL COMMUNICATIONS AND TECHNOLOGY



INTERACTIVE VIDEO AND LASER DISC TECHNOLOGY

RUS GANT

Center for Advanced Visual Studies
Massachusetts Institute of Technology

As a research fellow at the Center for Advanced Visual Studies, Rus Gant has been involved in numerous national and international projects involving directed research and development and exhibitions. These projects have involved work in the areas of optical memory, image processing, holography, visual language, computer graphics, and other related image fields. A special area of focus has been optical videodisc systems design with an emphasis on the next generation of knowledge-based systems. This includes Read Only Memory (ROM) videodisc systems design, ROM videodisc design and production, optical memory architecture, Direct Read After Write (DRAW), and Erasable Direct Read After Write (EDRAW) optical systems. Rus Gant also maintains a working knowledge of such related technologies as computerized animation stands, video and film time coding, CAD digital audio discs, DBS teletext and videotext systems, CAD/CAM/CAE and digital image processing.

Additionally, his interests extend to ancient as well as modern art and technology. As an excavator, draftsman, and photographer, he has worked on several New World and Old World archaeological excavations, surveys, and projects in Florida, the Yucatan, Italy, Greece, and Egypt. He is presently project designer/consultant on "Project Emperor I: China's Treasure Revealed via Videodisc Technology." This Type R ROM videodisc will be both an interactive electronic archive and a teaching database relative to specific portions of Chinese history. Rus Gant spent March and April of this year on location in the People's Republic of China.

Friday, May 31, 1985

11th Annual

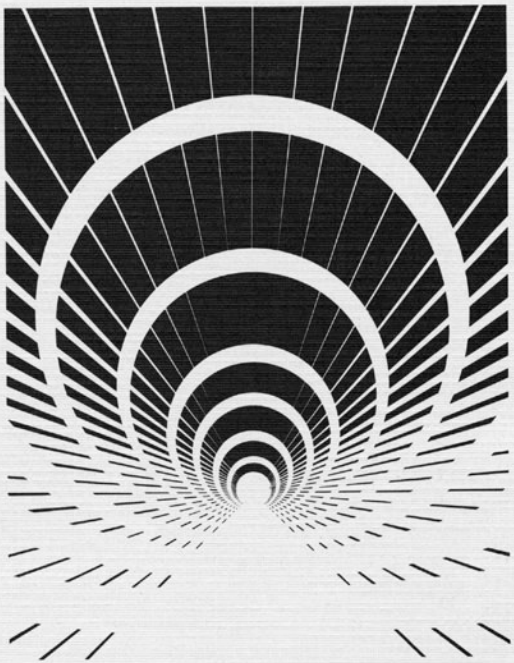
Norman Linck Awards Dinner

for the
Program in Educational Communications and Technology

6:30 p.m.	Social
7 p.m.	Dinner
8:15 p.m.	Welcome and Introductions Bill Edgar
	Presentation of Awards Barbara Seels
9 p.m.	Rus Gant "The Evolution of Optical Memory Technology: A Historical Perspective"
Key focus:	**Introducing Interactive Video Information Systems into the Educational Environment**

This evening's program is presented in honor of the School of Education's 75th Anniversary Year at the University of Pittsburgh. Rus Gant's address will be published in the *Proceedings* of this 75th Anniversary Year.

Saturday, June 1, 1985



SEMINAR ON INTERACTIVE VIDEO AND LASER DISC TECHNOLOGY

8:15 a.m.	Registration
8:45 a.m.	Welcome Tom Logue
9 a.m.	Rus Gant **LASER TECHNOLOGY** **Laser Discs** • Analog and digital audio discs—capabilities and potential • Optical video discs and information processing (the visual language—especially in reference to libraries and corporate applications) • "In-house" editing (and related problems that hinder greater usage) **Fiber Optics**—Lightwave communications technology (how it works—connections and transmission of voice, data, and video)
10 a.m.	Introduction to **ARIEL** (AT&T's interactive video system) Michael Estep and Leonard Jendrey
10:30 a.m.	Break
10:45 a.m.	Introduction to **IVIS** (DEC's interactive video system) Everett DeVelde and Fred Jenny
11:15 a.m.	Rus Gant **ARCHEOLOGY, MUSEOLOGY, AND TECHNOLOGY** (focus on his current videodisc projects) • Project Emperor I (China) • Cuervo Cave Project (New Mexico) • Project Athena • Egyptian Project
12:30 p.m.	Lunch
1:30 p.m.	Overview of interactive video work being done at Westinghouse Electric Corporation's Training and Operational Services Department (using a **Sony disc player and an IBM PC**) John McAllister and Fred Hayes
2:15 p.m.	Rus Gant **SIMULATIONS, ART, AND GRAPHICS—WITH COMPUTER ASSISTANCE**

Following Rus Gant's final presentation,
questions from those in attendance will be accepted.