

NEWS & EVENTS

Rochester Institute of Technology

Vol. 14, No. 3, January 28, 1982

Trustees Approve Two New Degree Programs

At its most recent meeting the RIT Board of Trustees approved degree programs in diagnostic medical sonography (ultrasound technology) and technical photography.

In developing the proposed programs RIT officials worked closely with industry and professional leaders to insure that the courses of study proposed would meet the current and future needs of these groups as well as the employment goals of RIT students.

Ultrasound technology, a diagnostic technique, is the only imaging modality using non-ionizing radiation. This technique is widely used in obstetrics, gynecology, abdominal, echo cardiography and ophthalmology. RIT's program will focus on obstetrical, gynecological and abdominal procedures.

"Diagnostic ultrasound is becoming more and more important in the evaluation of disease and is one of the fastest growing areas in diagnostic medicine," says Dr. Edward B. Stockham, acting director of the Department of Clinical Studies in the College of Science, of which the ultrasound technology program will become a part.

Currently there are 3,640 registered sonographers in the nation with projections indicating that an additional 4,000 to 6,000 sonographers will be needed by 1985. At this point there are only three programs leading to the bachelor of science degree in the entire country.

RIT's proposed program will require three years of academic study at RIT and one year of clinical internship at an affiliated medical center in Rochester, Buffalo, Syracuse, or Binghamton.

The program, which will prepare professionals in ultrasound technology for administrative, staff or research positions, will accommodate 19 students during its first year, with a maximum of 60 students enrolled in the program in the third year.

RIT's technical photography program is designed to prepare students for a number of employment possibilities in, as opposed to work in only one specialized area of, visual communications.

By combining coursework in photography and liberal arts studies with work in math, science, management and technical subjects, RIT hopes to meet the demand for graduates with technical backgrounds.

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Quinn's Address to Begin Teaching Effectiveness Day

Teaching Effectiveness Day will be Tuesday, Feb. 2. The theme will be "Academic Computing at RIT: Here, Now and Tomorrow." The semi-annual event is a day of interaction between faculty and staff, a day of sharing ideas on teaching methods and methods to maintain teaching excellence.

The Teaching Effectiveness Day Program Schedule:

Remember: attendance at each workshop will be limited, on a first-come, first-serve basis.

8:30-9 a.m. Coffee and tea in the Fireside Lounge
9-10:15 a.m. Dr. Quinn's address to faculty and staff
10:30-11:15 a.m. Session A workshops

11:30-12:15 p.m. Session B workshops
noon-4 p.m. A display of microcomputers in the 1829 Room, College-Alumni Union
12:15-1 p.m. Lunch
1:15-2 p.m. Session A workshops
2:15-3 p.m. Session B workshops
3-4 p.m. Reception in the Fireside Lounge

Session A Workshops

10:30-11:15 a.m. and 1:15-2 p.m.

'Computer Graphics Workshop'

Jim Ver Hague, College of Fine and Applied Arts
Bldg. 07-3496

A brief, visual overview of the state-of-the-art in computer graphics will be presented. Workshop attendees will have the opportunity for hands-on experience with a variety of computer graphics equipment. No prior programming expertise or knowledge of computers is required. Limit 20

'The Computer as a Graphics Tool'

Barry Siegel, NTID
Bldg. 06-222

An introduction to the graphic capability and limitations of the Apple computer. No prior computer experience is required. Limit 40

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NTID'S THREEPENNY OPERA

The NTID Theatre will present Bertold Brecht's musical satire, *The Threepenny Opera*, on two consecutive weekends at 8 p.m. each night: Friday and Saturday, Feb. 5 and 6, 12 and 13. Tickets are \$1 for all students, RIT faculty and staff, and senior citizens; all others are \$3. For reservations and information, call the NTID Theatre box office at 6254 (voice and TTY) weekdays from 10 a.m. to 4 p.m.

WORKSHOP: DIRECTING PEOPLE

Personnel's Staff Training and Development office will conduct a discussion group for supervisors entitled "Directing People on the Job," Tuesday, Feb. 9, from 2-4 p.m. in the Alumni Room, College-Alumni Union. The workshop will cover such topics as the directive, the four different kinds of directives, and techniques that enable supervisors to give directives effectively.

READING GIVEN

Poet and playwright Amiri Baraka (Leroi Jones) will read from his recent work in Ingle Auditorium, tonight, Jan. 28, at 8 p.m. The reading is free and open to the public.

LOMB LUNCHEONS

Mon. Feb. 1	Cog au vin, Parsley Potatoes, Spinach Salad or Vegetable Soup, Quiche Lorraine; Fruit Salad Dessert
Wed. Feb. 3	Ham and Spinach Souffle, Stuffed Tomato, Toasted French Bread or Tomato Onion Soup, Vegetable Medley Salad; Bavarian Apple Cake
Thurs. Feb. 4	Chicken Parmigiana, Crispy Bread Sticks, String Beans Almondine or Soup and French Salad Burger; Apple Crisp.

Lomb Luncheons are served from noon to 1 p.m. in the Henry Lomb Room, fourth floor, Administration Building; cost is \$2.50 For reservations call 2351.

POLICY & INFORMATION

ENROLLMENT SUMMARY REPORT

Winter 1981

(as of December 21, 1981)

Head Count Enrollment—Full- and Part-time Students (Matriculated, Non-matriculated, Co-op)

College		Undergraduate	Graduate	Total
Applied Science & Technology	Male	1,377	163	1,540
	Female	316	91	407
	Total	1,693	254	1,947
Business	Male	951	471	1,422
	Female	761	238	999
	Total	1,712	709	2,421
Career Decision, Military Science, Other	Male	8	—	8
	Female	13	—	13
	Total	21	—	21
Continuing Education	Male	2,937	61	2,998
	Female	1,587	21	1,608
	Total	4,524	82	4,606
Engineering	Male	1,256	185	1,441
	Female	137	8	145
	Total	1,393	193	1,586
Fine & Applied Arts	Male	252	31	283
	Female	362	62	424
	Total	614	93	707
General Studies	Male	117	—	117
	Female	144	—	144
	Total	261	—	261
Graphic Arts & Photography	Male	1,220	86	1,306
	Female	352	16	368
	Total	1,572	102	1,674
NTID	Male	474	—	474
	Female	306	—	306
	Total	780	—	780
Science	Male	321	47	368
	Female	260	25	285
	Total	581	72	653
Total Institute* (Winter 1981)	Male	8,913	1,044	9,957
	Female	4,238	461	4,699
	Total	13,151	1,505	14,656
Total Institute* (Winter 1980)	Male	8,686	909	9,595
	Female	3,946	406	4,352
	Total	12,632	1,315	13,947

*Eisenhower College is not included since it is on a semester basis.

Administrative Decisions and Actions 1) Search Committee (Dean of College of Graphic Arts and Photography) will be holding on-campus interviews with candidates. 2) No academic calendar change is being considered for 1982-83. 3) Strategic Planning/Size Study is moving forward as modified by recommendation of the deans.

Anyone wishing the source or additional information on any of the above, please call 2527.

Degree Programs

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"We expect this program to benefit future professionals in the photographic field by offering newly designed technical studies courses," says Dr. Russell Kraus, director of the School of Photographic Arts and Sciences.

Technical photography will become a part of the photographic technology department in the school, which currently offers programs in photographic processing and finishing management and biomedical photographic communications. "We believe those programs are, and will continue to be, valuable, but they are aimed at small sectors of the photographic industry. Technical photography will prepare students for a broader range of professional opportunities."

The proposed program is a four-year curriculum leading to the bachelor of science degree. During the fourth year, students will be required to complete a one-quarter internship in the field or a research project. The program is designed to serve 26 students in the first year, with 26 additional openings in each succeeding year.

Following approval by the Board of Trustees, these programs were submitted to the New York State Education Department. Pending its approval, RIT officials hope that the first students can be admitted into these programs for the quarter beginning September 1982.

Present RIT students who are interested in transferring into either of these programs should see their academic advisors to complete the regular change-of-program procedures.

Filmmaker's Event Scheduled

Pat Oleszko, filmmaker and performance artist, will present another perspective of art to RIT students and the community at a "happening," 7:30 p.m., tomorrow (Friday, Jan. 29) in Webb Auditorium.

Oleszko's appearance was arranged by Joe Jaroff and Jean Lindquist, students from the College of Fine and Applied Arts, who organized "Art Stuff," a program of participatory events demonstrating various artistic viewpoints. A New York City-based artist, Oleszko uses her body, multimedia, and costumes on both herself and her artistic creations to make feminist statements.

Home Energy Review Program Thriving

The Home Energy Review (HER) program operated by the RIT Research Corp. has been expanding its base of operations. Program coordinator John DeFrees spent the weekend of Jan. 22-23 in Huntington, W. Va., analyzing heat loss in a private home.

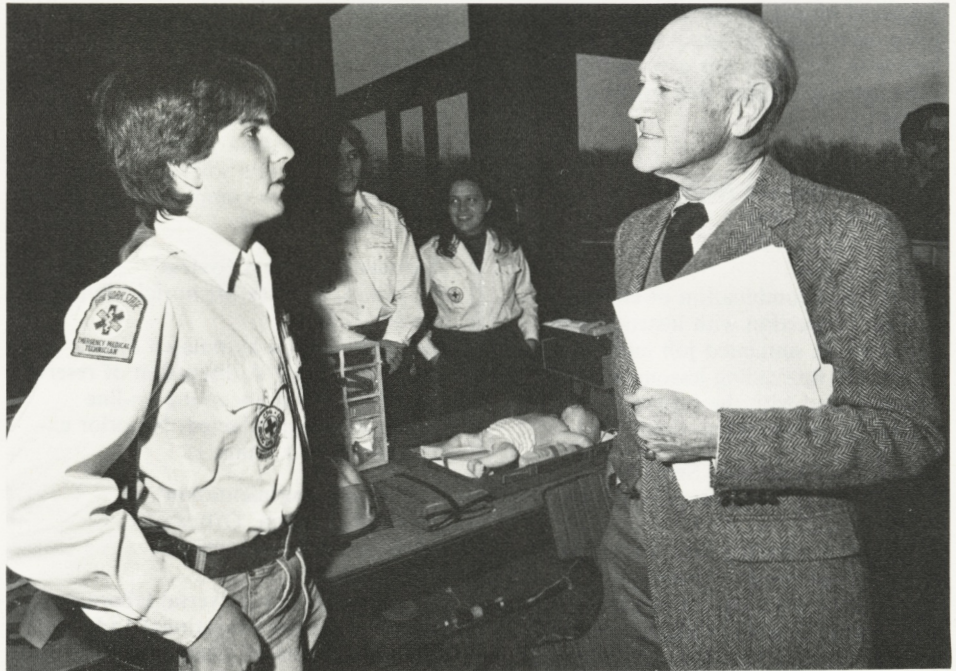
The Home Energy Review utilizes sophisticated equipment like an infrared scanning camera and blower door to determine heat loss sites. The W. Va. call came as a result of a recent television segment on the popular "PM Magazine" program. The eight-minute piece was taped locally by WOKR-TV and then broadcast throughout the country on the nationally syndicated show.

According to DeFrees, the Research Corp. is also offering partial home examinations. He says, "For \$100, the Home Energy Review team performs an infrared scan of the home to discover heat-loss areas. For \$200, the team also utilizes a blower door to pressurize the home and better pinpoint air changes. It also includes a furnace check and examination of the insulation and current R values."

The complete home energy review also includes a comprehensive furnace efficiency test and roughly \$100 worth of raw materials to correct many of the air leakage problems.

A recent success story comes from RIT's own solar powered Energy House, now serving as headquarters for the RIT Research Corp. After a day in Energy House, the HER team reduced the air change rate by 44 percent. DeFrees explained that, "despite Energy House's special design the infrared camera was able to uncover an insulation gap that allowed warm air to leak through an outside vent." Without the infrared camera, he added, the leak might never have been discovered, since it did not produce a draft or cold air leakage into the house.

DeFrees says interest in the program has led to a number of contacts from RIT faculty and staff and area restaurant and apartment owners. The RIT Research Corp. will display its equipment at the Home Beautiful Show in the Dome Arena, March 18-21.



Neal Eckhaus, student volunteer with the RIT Emergency Medical Unit (EMU), describes the unit's display of emergency aid training materials to RIT Board of Trustees' member Byron Johnson. Board members focused on student life for the program portion of their Jan. 18 meeting. Student leaders gave trustees a guided tour of student activities exhibits in the Fireside Lounge during a reception that followed the meeting. Student Directorate President Greg Coffey and Susan Van Caesele, RIT Toastmasters Club, addressed board members. Other exhibits represented the work of Student Orientation Services, College Activities Board, Eisenhower College, men's and women's varsity sports, International Students Association, Special Services, Higher Education Opportunity Program, Community Services, Outdoor Experiential Education, Educational Travel, and the Toastmasters Club. The NTID Combo played during the reception.



Teaching Effectiveness

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'Computer Graphics'

Ron Stappenbeck, Academic Computing
Bldg. 10-A340

The electronic presentation of graphic information. The seminar will present the types of display technologies, the prepackaged software (programs) available, range of capabilities and costs. No prior computer experience is required. Limit 20

'Intro to Computer Graphics'

Evelyn Culbertson, Computer Science
and Technology
Bldg. 06-A220

The main goals of this session are to introduce participants to computer graphics, demonstrate how to draw a graphical object on the display, and explain what kinds of applications work best with this tool. Some programming experience is helpful, but not necessary. Limit 25

'DAVID (Dynamic Audio Video Interactive Device)'

Donald Sims, NTID
Bldg. 06-2214

DAVID is a combination of computer assisted instruction with instructional television. A simulated job interview dialog and lip-reading lessons will be demonstrated with the system. No prior knowledge is necessary. Limit 25

'Academic Computing Services'

Steve Wilkins, Academic Computing
Bldg. 06-2233

Academic computing services include the selection and use of software and microcomputers, support of the language processors available and software documentation. No prior computer experience is required. Limit 25

'Grade Book (SPARS)'

Barbara Hodik, Office of Instructional
Development
Bldg. 10-A215

A prototype of a computer program designed to record quizzes, homework, lab reports and tests as well as calculate final grades will be demonstrated. When

fully developed this system will be especially useful in large classes. No previous knowledge of computing is necessary. Limit 30

'Computer Literacy at RIT'

Mike Lutz and Bill Stratton, Computer
Science and Technology
Bldg. 12-2124

This session will be devoted to RIT's recently established educational goal of computer literacy. Participants will be introduced to some of the facilities available for the teaching of computer literacy, and how to best integrate the subject into their own course offerings. Limit 50

Session B Workshops

11:30-12:15 p.m. and 2:15-3 p.m.

'Microcomputers'

Donna Cullen, Academic Computing
Bldg. 10-A340

This seminar will include the criteria for choosing microcomputer hardware, software, storage capability and communications, as well as the availability of microcomputers and software at the Institute. No prior computer experience is required. Limit 25

'Automated Library System'

Pat Pitkin, Wallace Memorial Library
Library-3170

How will the new automated library system help you? A discussion of reserve area services and upcoming on-line catalog will be conducted. No prior experience needed. Limit 15

'Vicarious Experimentation'

Gordon Goodman, Office of
Instructional Development
Bldg. 10-A215

The computer is a universal laboratory. Come discuss the educational and economic impact of using computers to simulate phenomena and situations, as well as watch and try some examples currently available for microcomputers. No prior experience needed. Limit 25

'Global Perspective— Through Limits to Growth'

Donald Eilenstine and Dennis
McDonald, Eisenhower
Bldg. 01-3381

In this simplified version of the Club of Rome's World Growth Model, both the standard forecast for the world to 2100 and scenarios of your own design may be investigated by utilizing the "limits" computer model. No prior computer experience is required. Limit 25

'Play and Work: Using Computer Simulations in Education'

Morton Isaacs, General Studies
Bldg. 06-A210

Computer simulations are the first practical educational tools that have the potential to combine play and work easily and economically, in terms of both time and money. The discussion will present the rationale behind, and demonstrate, various computer simulations in psychology that have been developed. No prior computer experience is required. Limit 25

'Lesson Authoring Systems for Microcomputers'

James Jensen, NTID Construction
Technologies
Bldg. 12-2428

This presentation will categorize the types of authoring systems and, through brief demonstrations, will give the audience a sense of appropriate applications for each. The target audience for this session is teachers and developers who have some awareness of microcomputer use and an interest in computer assisted instruction. Limit 50

'Automated Writing Systems'

Ken Reek, Computer Science and
Technology
Bldg. 12-2452

This presentation will cover the Writer's Workbench, an automated writing system that was developed at Bell Telephone Laboratories. The session will be of interest to everyone who writes in his or her own job, and of particular interest to those who teach writing courses. The capabilities of the various programs will be described in non-technical language, so previous experience with computers is not required. Limit 70. **Note: This workshop will not be repeated in the afternoon session.**