



Club to hear 'maverick' speaker

Dr. Robert W. Carney, professor of management at Georgia Tech, will speak at a meeting of the Duke Management Club on Thursday, Dec. 8.

The meeting, to which admission is by

ticket, will begin with a refreshment hour at 6 p.m. in the Courtyard Dining Room. Dinner will be served at 7.

Carney holds master's and doctorate degrees from Cornell and has served as management consultant to numerous private corporations and governmental agencies. He is one of 126 persons listed in Dartnell's National Directory of Outstanding Speakers.

The Management Club president, James L. (Pete) Bennett, said that Carney has developed a reputation as something of a "management maverick" and that he will be talking on "Principles of Management Revisited."

Arrangements to attend the dinner meeting may still be made by contacting John Robinette at 684-3682.

This meeting will be the second in this year's Management Club series. The first meeting, in October, drew a record attendance, Bennett said.

INTERNATIONAL GUESTS—Sister Gilmory Simmons, M.D., and Dr. Wilson Rocha look over the program for the first annual Susan C. Dees Symposium. The symposium, established to honor Dr. Susan C. Dees, professor of pediatrics, featured distinguished speakers on recent advances in the pathophysiology and therapy of allergic and immunologic disorders. Simmons trained at Duke in 1950-1951 and has been a missionary with the Mary Knoll order in Korea and other developing nations. Rocha trained at Duke in 1958-1959 and again in 1964-1966 and is chief of pediatrics at the children's hospital in Belo Horizonte, Brazil.

Student-built device shows promise

(Continued from page 1)

muscles and nerves have had time to atrophy," she said.

The adjustable instrument consists of a series of generators that feed a rhythmic train of electrical pulses through a pair of thin wires attached to an electrode surgically connected to the phrenic nerve.

Each train of pulses lasts for one and a half seconds and is timed to allow a patient to inhale every four seconds, she

said. Various safety features, including an alarm system that will sound if the patient stops breathing, have been incorporated into the stimulator.

Cohen said that if an individual recovers the ability to breathe without the device, the two wires can be clipped off at the skin and allowed to heal over.

If the patient is going to need long-term or permanent pacing, surgeons will

eventually fasten a small transistorized radio receiver to the electrode leads and implant it in his or her chest. A plastic-covered antenna, taped to the skin where the receiver is buried, transmits radio signals through the skin.

This more portable stimulator, invented at Yale University, already is being used successfully by some 200 paralyzed persons across the nation.

"The problem with radio frequency units is that there is a six to 12-month time lag between a person's accident and the actual insertion," Cohen said. "Surgeons want to make perfectly certain that the patient's not going to regain his ability to breathe on his own before they put one in."

With a little help from her friends

Cohen created her phrenic nerve stimulator under the supervision of Dr. Blaine S. Nashold, professor of neurosurgery, and Cedric Walker, an assistant professor at Tulane University, who is completing a Ph.D. in engineering here.

She said they deserve most of the credit, but Nashold disagrees with her.

"Carolyn is a talented and highly-motivated young woman who is just being modest," he said. "We helped her when we could, but the project is her own, and she has been very dedicated to it."

Wants patients to move

The neurosurgeon said the device already has proven effective in continuing animal studies. The first human trials may come early next year.

Cohen said she first gained her interest in science through her parents, who are zoologists. While she hasn't decided whether she wants to attend medical school or pursue graduate studies in engineering, she does know what she wants to do with the phrenic stimulator.

"I'm trying to make it more portable and battery-operated," the 20-year-old explained, wrinkling her brow. "I think the patients should be able to move around more."

Fund still short

Although the United Fund Drive has officially ended, contributions are still more than welcome, co-chairperson Gene Winders said.

To date, the university has raised 86 per cent of its \$102,000 goal.

"Last year, pledges and contributions which came in after the end of the drive put us over the top," Winders said. "We hope that will happen again this year."

Be not so busy chopping wood that you have no time to sharpen the ax.

Save gas and insure good health.
Walk, do not stroll, every day.

If the wind stops blowing your sails,
row!



December 2-9, 1977

The Medical Center Calendar lists lectures, symposia and other medical center activities. Notices should be sent to Box 3354, Hospital, no later than one week prior to publication. If last minute scheduling makes it impossible to send a written notice in time, please call 684-4148.

Friday, December 2

- 12:30 p.m. Biochemistry Seminar. Dr. Nicholas M. Kredich, associate professor of medicine and assistant professor of biochemistry, "Inhibition of S-Adenosylmethionine Mediated Methylation in Adenosine Deaminase Inhibited Lymphocytes," Rm 147, Naneline H. Duke Bldg. Coffee at 12:15 in the lobby.
- 1 p.m. Network for Continuing Medical Education (NCME). Program on "Angina Pectoris: Diagnosis and Management." View in Rms M405 and 2031 at Duke and Rms D3008, C6002 and C7002 and Bldg 16 at the VA Hospital.

Monday, December 5

- 12 noon Pathology Research Conference. Dr. Peter Burger, assistant professor of pathology, "The Effect of 'GHB' on the Hair Follicle of the C57 Black Mouse," Rm M204.
- 12:30 p.m. Special Biochemistry Seminar. Dr. Goto Hagenbuehle, Dept. of Molecular Biophysics and Biochemistry, Yale University, "Conserved Sequences at the 3' Terminus of Eukaryotic 18S Ribosomal RNAs," Rm 147, Naneline H. Duke Bldg. Coffee at 12:15 in the lobby.
- 3 p.m. Forum sponsored by Alpha Omega Alpha and Student Bar Association. Dr. Theodore Cooper, dean, Cornell University Medical College. Law School.
- 3:30 p.m. Institute of Policy Sciences Health Colloquium. Michael McGinnis, deputy assistant secretary for health, HEW, "Medical Technology and the Allocation of Resources among Competing Priorities," Rm 204, Perkins Library.
- 4 p.m. Pharmacology Seminar. Dr. P. Michael Conn, National Institute of Child Health and Human Development, Bethesda, Md., "Intracellular Translocation of Gonadotropin-Receptor Complex: A Possible Mechanism for Loss of Plasma Membrane Receptors from Target Cells," Rm 147, Naneline H. Duke Bldg. Coffee at 3:45.

Tuesday, December 6

- 8 a.m. "Care of the Cardiac Child: In the Hospital and in the Community," Washington Duke Motor Lodge.
- 3 p.m. Symposium on Medicine and Technology. Dr. Theodore Cooper, Rm 2031.
- 3:30 p.m. Pharmacology Seminar. Dr. Richard Philpot, National Institute of Environmental Health Sciences, Research Triangle Park, "Hepatic Cytichrome P-448 from Treated and Untreated Rabbits," Rm 147, Naneline H. Duke Bldg. Coffee at 3:15.
- 4 p.m. Council on Aging and Human Development. Joyce Lease, director, National Institute for Senior Citizens, National Council on Aging, Washington, "The Multipurpose Senior Center: Clustering Services for Effective Delivery," Rm 1504 (blue zone).

Wednesday, December 7

- 1 p.m. NCME. See Fri., Dec. 2, for program and viewing areas.
- 4 p.m. Anatomy Seminar. Dr. Eric L. Effmann, associate professor of radiology, "Microangiographic Aspects of Pulmonary Vascular Development in the Rat Fetus," Sands Bldg. Coffee and cookies at 3:45.
- 5 p.m. Dean's Hour. Dr. Theodore Cooper, Amphitheater.

Thursday, December 8

- 6 p.m. Duke Management Club. Dr. Robert W. Carney, professor of management, Georgia Tech, "Principles of Management Revisited," Courtyard Dining Rm.
- 7 p.m. Alpha Omega Alpha medical honor society annual initiation banquet, West Union Ballroom.