

## With this steady flow HOLTER<sup>\*\*</sup> pump you handle two fluids simultaneously at different rates (0-2500 ml/hr)

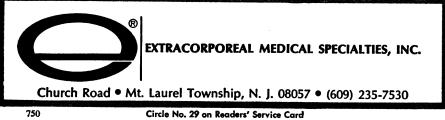
The RL175 Holter bilateral roller pump offers laboratory workers and clinicians the means of pumping two discrete systems at linearly related rates.

A high and a low RPM range for the roller head provide optimum control of pumping rates. Within each range, speed is infinitely variable. Internal solid state voltage regulation contributes to a pumping accuracy of  $\pm 1\%$ . Delivery volume vs. pressure curves are flat up to 290 mm Hg positive pressure and 200 mm Hg negative pressure.

Precision molded silicone elastomer pumping chambers eliminate the hysteresis effects that make PVC and polyethylene undesirable in precision work. Useful life of the chambers is well over 2,000 hours. Provided in two internal diameters, they are autoclavable and easily interchangeable. Because the chambers are completely occluded by the head rollers, the RL175 does not "dribble" when shut off. You stop and start with identical, virtually non-pulsatile flows.

The circuitry and mechanical safety features of the RL175 suit it admirably to unattended operation.

Write or call today for full information and prices on this versatile laboratory pump, and on other pumps and devices from Extracorporeal.



health care needs. It also will take a change in attitude toward the nongraduate teaching programs. A meaningful contribution will earn pharmacology departments the recognition they seek. We in the other health sciences will welcome their increased interest.

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## **Impudence Displaces Discipline**

The title of Carter's article, "Making of a president: Stanford students decry lack of voice" (20 Sept., p. 1229), is evidence of the currently distorted idea of the role of students in our institutions of higher learning. I noted the impudent statement of a Stanford student leader regarding the choice of Kenneth S. Pitzer as university president, a selection which was made without any participation by student representatives.

Students are in college to get an education, not to tell their elders how to run the school. It is typical of youngsters growing up for them to think they know more than their parents and even their teachers. But discipline, the most important factor in education, is the antidote for this impudence. If the young don't learn discipline at home or in school, they will learn it in the workaday world in a measure of cruelty beyond their capacity to withstand.

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## **Bioenergetics: Birth of a Bulletin**

At a recent Gordon Research Conference on Energy Coupling Mechanisms held in New Hampshire, it was decided to establish a means of rapid and informal communication among workers in the field of bioenergetics, including electron transfer, oxidative phosphorylation, photosynthesis and photophosphorylation, associated energy-linked functions, biogenesis of mitochondria and chloroplasts, and related topics.

A scientific memorandum to be called Bioenergetics Bulletin will be circulated monthly and will contain summaries of research results and papers submitted for publication in regular journals, conceptual insights into bioenergetic

SCIENCE, VOL. 162