Hogwash!

There's only one Tygon

For over a quarter of a century, the name TYGON—a registered trademark of U.S. Stoneware, Inc.—has symbolized unsurpassed quality. There is only one TYGON Tubing, a product of U.S. Stoneware. Identification of genuine TYGON Tubing is quick, easy and positive—the name “TYGON” and the formulation number appear on every foot. Always insist on genuine TYGON Tubing, available at Laboratory Supply Houses everywhere.

“Tygon-like”
“Almost Tygon”
“Tygon-type”
“Simulates Tygon”

Education in the Shadow of Contempt

In his article “The social sciences and public policy” (3 May, p. 508), David B. Truman wrote:

A more deliberate effort will require from active academics a serious, explicit, and continuing concern for education. One gets the impression that departmental and professional gatherings, except as they discuss a particular discipline, are the last places, not excepting general faculty meetings, in which to encounter serious thought about education. Presidents and deans are expected to pontificate on such matters, and the talk of professional educationists is tolerated if they keep to themselves, but an impression is conveyed that such concerns are not quite respectable for serious scholars. The impression is not accurate, of course, but circumstances give it some appearance of validity.

These, as well as many other points in the article, soak up added significance with every confrontation of students and college administrations, including Provost Truman’s own ordeal at Columbia University. The article deserves serious attention. . . . We shall comment on a few of the issues touched on in the quoted passage.

1) If Truman is right, then we have the odd spectacle on our university campuses of many scholars, including many social scientists, taking little professional interest in what, by all odds, is one of the most fundamental of all social processes—education.

2) No less strange is the cavalier, almost contemptuous, attitude, sensed by Truman, toward those “educationists” who do make it their professional concern to study the educational enterprise. This attitude is not only strange—in the light of the commitment of the academic world to scholarly study of all phenomena—but it may have had consequences far more serious than a low position for educationists on the academic totem pole. In many instances this attitude has prevented academicians from hearing warnings that educationists were issuing decades ago and to which the current campus upheavals are now giving a tragic point.

3) The policy of relying on academicians in the diverse intellectual disciplines (history, economics, sociology, philosophy, psychology) to save education from the educationists, a policy in which millions upon millions of dollars have been invested by both the private foundations and government, we believe, is both theoretically and practically bankrupt. Truman’s analysis indirectly explains why this belief is

Almost G.S. AaNoEff4lf
There’s Circle
Always

Mr. Pilgrim knows from first-hand experience how CRC’s Dual-Purpose Labwasher soon pays for itself—even when serving just seven analysts.

To determine man-hour savings—plus other possible advantages to labwasher use in your lab, CRC now makes available FREE a booklet of 48 different laboratories’ actual in-use reports.

For efficient study and use, this invaluable compilation is presented in outline format. Laboratory type, location, Labwasher model used, number of personnel served and average number of pieces washed daily are included—plus operating procedures and users’ general comments.

REQUEST BULLETIN LE-831
Write today for “48 Successful Field Applications”. Full descriptive literature on our Labwasher models will be included.

IT’s FREE!

The CHEMICAL RUBBER co.
18901 Cranwood Parkway
Cleveland, Ohio 44128

Circle No. 80 on Readers’ Service Card

Circle No. 83 on Readers’ Service Card

110
justified, because the same factors that produce an inverse relationship between the development of a discipline as a science and its involvement with social problems also operate against the professional involvement of academic specialists in problems of education. Beginning with the fact that many disciplines have relevance for problems of education, it does not follow that their disciples will be willing or even able to work on these problems.

4) However, if the academic specialists are willing and able, the problem of finding an academic structure in which they can do so is perhaps not so obdurate as Truman seems to indicate. To be sure, the departmental structure—based on the academic disciplines—is eminently unsuited to interdisciplinary attacks of societal problems. Nevertheless, modern American universities do have on their campuses institutions that are interdisciplinary—the professional schools. The schools of law, medicine, engineering, architecture, and agriculture all use distinctive domains of practice to focus the results of many disciplines. The school of education is also such a structure; social scientists who really want to devote themselves to the study of education are more than welcome, and who knows, they may even find the intellectual climate there quite invigorating.

HARRY S. BROUDY  
M. C. WITROCK

Center for Advanced Study in the Behavioral Sciences,  
202 Junipero Serra Boulevard,  
Stanford, California 94305.

Food Irradiation Study

In response to Schweigert (Letters, 3 May) and to the general question of the mutagenicity of food sterilized by exposure to ionizing radiation, we are now conducting, with an inbred strain of mice, experiments designed to detect damage to the polygenic system induced by a food component that has been subjected to megard doses of gamma irradiation. An outline of the work in progress is available from the Science Information Exchange of the Smithsonian Institution. This study is being supported by the Food and Drug Administration.

JOHN W. CRENSHAW, JR.  
Department of Zoology,  
University of Rhode Island,  
Kingston 02881

With this portable HOLTER™ pump  
you can serve a pediatric ward,  
sample wastes in a rowboat  
or run analyses at a bench

The RD series of Holter battery/line operated pumps offers clinicians, field and laboratory workers the means to move fluids precisely and reliably under almost any environmental conditions.

Holter RD bilateral roller head pumps operate 4-8 hours on a single battery charge with an accuracy of ±3%. Delivery volume vs. pressure curves are flat up to ±290, −200 mm Hg. Three models provide highly reproducible flow rates of 0.33 – 26, 2.5 – 210, and 25 – 1300. ml/hr. (Precision molded silicone pumping chambers avoid hysteresis effects common to PVC and polyethylene. Positive anisotropic chamber occlusion ensures identical stopping and starting rates, prevents annoying “drizzle.”)

Versatility is heightened by stepless speed control and chambers of four different ID’s. Chambers are autoclavable and have a life of at least 2000 hours. Safety is assured in regional heparinization and other critical applications as the Holter roller head prevents line blowout or motor burnout in case of inadvertent stoppages.

Internal Ni-Cd cells and separate transformer-rectifiers for battery charging and line operation are supplied with all portable models. Two additional RD models are also available for line use only.

Write or call today for an informative brochure and prices on RD, other Holter silicone chamber pumps from Extracorporeal. Inquiries on specialized medical and scientific devices are invited as well.

EXTRACORPOREAL MEDICAL SPECIALTIES, INC.  
Church Road • Mount Laurel Township, N. J. 08057 • (609) 235-7530

Circle No. 83 on Readers' Service Card
Olivine Gabbro

Leitz polarizing microscopes help you dig out its secrets with astonishing precision. (As well as the secrets of other minerals, plastics, textiles and chemicals.)

DIALUX-POL... our most advanced universal polarizing research microscope. A choice of more than 100 optional, interchangeable components permits almost infinitely varied combinations for precision measurement, examination and photomicrography. Many exclusive optional features.

ORTHOLUX-POL... widest-range universal research microscope for all types of polarizing microscopy, plus incident phase contrast and interference.

LABOLUX-POL... laboratory and research polarizing microscope with built-in transmitted light and provisions for work in incident light (ore microscopy).

SM POL... student polarizing or chemical microscope for general applications in transmitted polarized light.

ARISTOPHOT Photographic Unit... adapts Leitz polarizing microscopes for photomicrography, macrophotography and low-power surveys with incident or transmitted light. Mirror reflex system for 3¼ x 4¼ (9 x 12 cm), 4 x 5 or Polaroid®; also adapts to Leica® 35mm.

Leitz ORTHOMAT Microscope Camera... attachable to any microscope, this unique, automatic 35mm camera calculates exposure, trips the shutter and advances the film.

Write for catalogs on any one of these advanced Leitz polarizing microscopes and accessories.
This new Nucleic Acid Analyzer separated this nucleotide mixture in only 80 minutes. (And it’s the only one in the world that could have.)

That chromatogram above actually took only 80 minutes with Picker’s new Nucleic Acid Analyzer. It represents the separation of 1 microgram quantities of the 2', 3' monophosphates of ribonucleosides of cytosine, uracil, adenine, and guanine. Accordingly, if one were anxious to prove a point and the circumstances were truly ideal, you might well squeeze more than 12 separations out of this device in 24 working hours. Four separations in a typical work day: easy.

In any case, happy results have also been achieved with our Nucleic Acid Analyzer and mixtures of the mono-, di-, and triphosphates of the ribonucleosides of adenine, guanine, cytosine, and uracil. Complete analysis time: about 100 minutes. Mixtures of nucleotides and other UV-absorbing substances from natural sources yield chromatograms with an impressive multiplicity of peaks. Quickly.

So how does Picker’s Nucleic Acid Analyzer effect nucleotide separations in so much less than the usual 24 to 36 hours? By introducing some interesting innovations into semi-automatic liquid chromatography: small bore columns packed with glass microspheres (which are coated with a skin of anion exchange resins), the columns run at high pressure (1000 psi or more).

The benefits are several. High speed: an hour or more per separation instead of a day or more. High sensitivity: nanomole quantities are sufficient. Excellent resolution: see chromatogram above.

This most interesting development—the only high pressure liquid chromatography system now available—has been unpretentiously dubbed “LCS 1000.”

If you now write that number on a postcard (and also tell us who you are, where you are, and what zip code locates you), we’ll reveal more. Thank you.