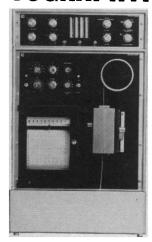
SPEED UP YOUR RADIOCHROMA-



By a factor of up to six. How? With Nuclear-Chicago's new Digital Actigraph® III—the fast digital/analog paper-strip radiochromatography system. It's designed for speed and reliable, quantitative data.

FAST BETWEEN PEAKS

For example, Digital Actigraph III automatically senses low-activity areas between peaks. Then it stops counting and speeds up the paper strip and the recorder (up to 325 cm/hour) to the next peak—with no loss in time synchronization. This acceleration is particularly advantageous for widely-spaced radioactive fronts or for strips that require slow scan-speeds due to their low activity.

ACCURACY, TOO

Digital Actigraph III has a built-in digital rate-gate and exclusive pulse-stepped drive motors. These features ensure that deceleration and resumption of counting upon entering a peak are virtually instantaneous essentially no counts are lost. All of which makes it possible to sense activity peaks with better than 97% accuracy in most cases.

PLUS DIGITAL INTEGRATION

This new paper-strip radiochromatography system also incorporates a fast digital integrator, which automatically quantitates the activity in each individual peak. And it prints out this data with virtually no loss of counts during printout. It'll also print out a running subtotal of the peaks, if desired.

HOW ABOUT TLC?

Is your interest thin-layer radiochromatog-raphy? The Digital Actigraph III is easily adapted for that kind of work too.

Find out more about Digital Actigraph IIIthe fast system that outperforms all the others. Ask your local Nuclear-Chicago sales engineer, or write to us.



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The intellectuals' association with the activists and street demonstrators in Los Angeles in June is most unfortunate. Admittedly most of the demonstrators were peaceful, but some of them were not, and their willingness to resort to physical assault has been amply demonstrated to administration ficials at various points around the country. The ads in the West Coast papers calling for demonstrators were thinly veiled incitements to riot. The Los Angeles police knew this, and they had no intention of permitting the President of the United States to be physically assaulted. As for the peaceful ones: "He who lies down with dogs will rise up with fleas."

The intellectuals have much to offer the nation, but a Ph.D. does not also confer omniscience and infallibility in world affairs. The harsh realities of politics indicate that Lyndon Johnson will be president until 1972; if the intellectuals wish to serve the nation (and I hope they do) they had best make their peace with him. Without Johnson's acquiescence they will be effectively excluded from the decisionmaking process of government, to the detriment of us all. Perhaps if the intellectuals stop bombing Johnson now he may negotiate.

ROBERT M. LUKES 223 Bramton Road. Louisville, Kentucky 40207

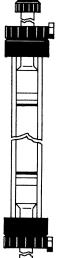
Accelerator Project Problems

I was deeply disappointed by the antiscientific flavor of Nelson's commentary (21 July, p. 294) on the 200-Bev accelerator project. Although I have a special interest in this matter, I believe that my disappointment must be shared by anyone who believes, as I do, that basic research is one of the most important, stimulating, and rewarding activities of modern-day man. The New York Times editorial of 16 July, which was gratuitously reprinted by you, would have been similarly disturbing except for that newspaper's previous advocacy of the project at a time when the State of New York was still in the running for the site. In view of this reversal of position, one might easily conclude that regionalism was a factor with the New York Times. . .

Also the quote used by Nelson did not come from Wilson's letter to Senator Pastore as claimed, but rather from

NEW from PHARMACIA SEPHADEX[®] LH-20

extends gel filtration to organic solvents



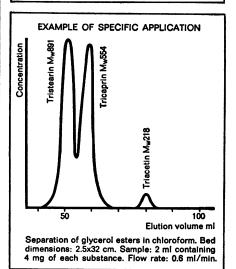
Pharmacia Fine Chemicals now introduces the first lipophilic derivative - Sephadex LH-20-to extend the use of Sephadex to organic solvents. Since it swells in water, polar organic solvents and in mixtures of these solvents, Sephadex LH-20 makes it possible to apply the conventional Sephadex gel filtration technique in fields such as lipid chemistry, polymer chemistry and other areas of organic chemistry and biochemistry where organic solvents must be used.

Sephadex Solvent-Resistant Columns

The only laboratory columns especially designed for use in chromatographic separations with organic solvent systems. The columns are equipped with two specially designed adjustable flow adaptors for use with various bed heights and for ease of sample application. The columns have the advantage of allowing either descending, upward flow or recycling chromatography as one of their many features.

RANGE OF APPLICATION

Solvent	Approx. solvent regain ml solvent/g dry gel	Approx. bed volume ml/g dry gel
Dimethylformamic	le 2.2	4
Water	2.1	4
Methanol	1.9	3.5-4.0
Ethanol	1.8	3.0-3.5
Chioroform*	1.8	3.0-3.5
n-butano)	1.6	3
Dioxane	1.4	2.5-3.0
Tetrahydrofuran	1.4	2.5-3.0
Acetone	0.8	1.5
*Containing 1% ethanol. P		Particle size: 25-100 μ



For additional technical information, including the booklets Sephadex LH-20 and The Sephadex Solvent-Resistant Columns, write to:



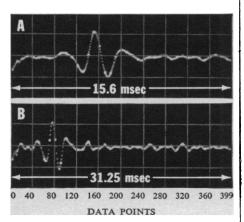
PHARMACIA FINE CHEMICALS INC.

800 Centennial Avenue Piscataway, New Jersey 08854

Pharmacia (Canada) Ltd., 110 Place Crémazie, Suite 412, Montreal 11, P. Q.

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Our signal averager uses all its data points for better resolution.



More usable data points. In a signal averager, resolution is a function of the number of data points that can be placed within a region of interest. Resolution can, therefore, be a problem in any signal averager with a minimum dwell-time per data point of longer than the 39 µsec. of our Model 7100 Data Retrieval Computer (15.6 msec, for 400 data points, display A, above). Many other signal averagers have a minimum dwell-time per data point as long as 78 µsec. (31.25 msec. for 400 data points, display B, above). Our signal averager, the DRC, uses all of its data points for signals that occur within as little as 15.6 msec. Result: the DRC gives you better resolution.

Pre- and post-analysis interval control. Another way to improve resolution is to average only meaningful signals. The DRC provides widerange control of both pre- and post-analysis delay intervals. No data points are wasted on signals occurring between stimulus and response or during recovery after response.

Performance plus versatility. The DRC also has an input sensitivity of 20 millivolts—requiring no pre-amplification for many applications. Besides transient-averaging, the DRC will perform time- and intervalistogram analysis, without add-on modules. Now, all of the DRC's performance and versatility is available at a new, lower price:



The Model 7100

Data Retrieval Computer.

For more information on the DRC and its exciting new price, consult your local Nuclear-Chicago sales engineer. Or write to us.





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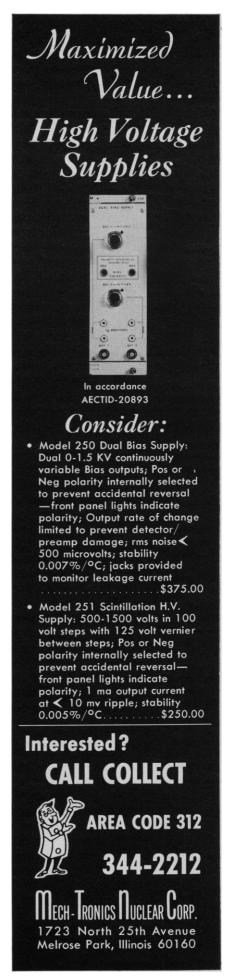
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a telegram that he and I jointly sent to Illinois legislators at the time of their consideration of open housing statutes. Thus, although the words are ours, the framework within which they fit is quite different from the one reported in Nelson's article. . . .

We fully intend that the Laboratory shall be aggressive and imaginative in seeking ways to achieve de facto open opportunity. Toward this end we have adopted a nondiscriminatory pledge which must be signed by any landlord, owner, or agent who wishes to list housing with the Laboratory. We are actively seeking ways in which the Laboratory will be truly accessible to the labor force and talent of the minority groups now located in Chicago. As the Laboratory recruits employees from these minority groups, it will play an active role in establishing accessible housing in the communities immediately surrounding the Weston site.

EDWIN L. GOLDWASSER National Accelerator Laboratory, 1301 West 22 Street, Oakbrook, Illinois 60521

Because of a production error, for which Nelson was not responsible, the quoted excerpt from the Wilson-Goldwasser telegram to the Illinois legislature was mistakenly described as having come from Wilson's letter to Pastore. The telegram was actually an enclosure in Wilson's letter to Pastore. The error, though small, is regrettable. Also regrettable is the inclination of many persons in the high-energy physics community to brand as "antiscientific" (i) those who do not share their enthusiasm for high-energy physics, in this case the New York Times; and (ii) those who reprint the views of those who do not share their enthusiasm. The Times editorial was not "gratuitously" reprinted. It was deemed to merit space in the news columns, because, as was stated in an introductory note, the editorial represented a departure from the Times's longstanding, undeviating support of all basic research. Since the Times is generally considered to be a publication of some influence, there is every conceivable justification for bringing this turn of events to the attention of the scientific community. The advancement of science, to which Science is dedicated, is not served by the perpetuation of fantasy or obliviousness toward attitudes that do not coincide with those held by particular segments of the scientific community.—D.S.G.



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