

tron capture and in the reverse process—a topic which has long been neglected in the study of neutron interactions with nuclei. In this session G. A. Bartholomew (Chalk River, Canada) summarized the situation in this field and pointed out that significant results can be obtained with much higher resolution in order to separate various levels and determine the level structure. L. V. Grochev (Academy of Sciences of the U.S.S.R.) reported some of his results, obtained by means of a high-resolution gamma ray spectrometer. He showed how significant results could be obtained. He was able

to interpret his results for the light elements in terms of direct capture of a neutron into shell model states. In heavy even-even nuclei, the existence of rotational bands at an energy around 1 Mev was inferred from the existence of strong  $\gamma$ -ray lines of about this energy. (Capture is about 8 Mev, and the shell and collective model have usually only been successful in exploring levels near the ground state of the nucleus.)

H. Schultz (Yale University) presented some results on the energy distribution of gamma rays, from neutrons captured by a particular neutron reso-

nance, and B. Trumpy (Kjeller, Norway) presented results of polarization measurements. Both of these techniques promise to give some information on the spins of levels. The extension and refinement of these techniques promise to give a wealth of new experimental information and a more fundamental understanding of the capture process in terms of nuclear models.

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## Forthcoming Events

### March

1. Junior Solar Symposium, Tempe, Ariz. (Association for Applied Solar Energy, 3424 N. Central Ave., Phoenix, Ariz.)

1-3. National Wildlife Federation, St. Louis, Mo. (E. F. Swift, NWF, 232 Carroll St., NW, Washington 12.)

3. Wildlife Soc., annual, St. Louis, Mo. (D. L. Leedy, U.S. Fish and Wildlife Service, Washington 25.)

5-6. Gas Conditioning Conf., 7th annual, Norman, Okla. (M. L. Powers, Extension Div., Univ. of Oklahoma, Norman.)

6-8. Fundamental Cancer Research, 12th annual, Houston, Tex. (W. K. Sinclair, M. D. Anderson Hospital and Tumor Inst., Univ. of Texas, Houston 25.)

9-14. International College of Surgeons, 11th biennial cong., Los Angeles, Calif. (K. A. Meyer, 1516 Lake Shore Dr., Chicago 10, Ill.)

10-13. American Assoc. of Petroleum Geologists, annual, Los Angeles, Calif. (R. H. Dott, AAPG, Box 979, Tulsa 1, Okla.)

10-13. Society of Economic Paleontologists and Mineralogists, annual, Los Angeles, Calif. (R. H. Dott, Box 979, Tulsa, Okla.)

16-21. Nuclear Engineering and Science Cong., Chicago, Ill. (D. I. Cooper, *Nucleonics*, 330 W. 42 St., New York.)

17-21. National Assoc. of Corrosion Engineers, 14th annual, San Francisco, Calif. (NACE, Southern Standard Bldg., Houston 2, Tex.)

18-20. Amino Acids and Peptides, Ciba Foundation symp. (by invitation), London, England. (G. E. W. Wolstenholme, 41 Portland Pl., London, W.1.)

20-22. Michigan Acad. of Science, Arts and Letters, annual, Ann Arbor. (R. F. Haugh, Dept. of English, Univ. of Michigan, Ann Arbor.)

20-22. Pulmonary Circulation Conf., Chicago, Ill. (Wright Adams, Chicago Heart Assoc., 69 W. Washington St., Chicago 2.)

20-23. International Assoc. for Dental Research, annual, Detroit, Mich. (D. Y. Burrill, Northwestern Univ. Dental School, 311 E. Chicago Ave., Chicago 11, Ill.)

23-26. American Assoc. of Dental Schools, annual, Detroit, Mich. (M. W. McCrea, 42 S. Greene St., Baltimore 1, Md.)

(See issue of 24 January for comprehensive list)

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