belled Compounds Div., 51-53, rue Belliard, Brussels, Belgium)

19-21. Instrumentation for the Process Industries, Texas A&M symp., College Station. (P. T. Eubank, Dept. of Chemical Engineering, Texas A&M Univ., College Station)

20-21. Anharmonic **Phonon Interactions** in Solids, Princeton Univ., Princeton, N.J. (W. B. Daniels, Dept. of Solid State Sciences, Princeton Univ., Princeton, N.J.)

20-22. Regulation of Antibody Response, intern. symp., Toronto, Ont., Canada. (B. Cinader, Subdivision of Immunochemistry, Univ. of Toronto, Toronto, Ont.)

20-22. Diabetes in the Tropics, world congr., Bombay, India. (Organizing Secretary, Diabetic Assoc. of India, Maneckji Wadia Bldg., Mahatma Gandhi Rd., Bombay 1)

20-22. Symmetry Principles at High Energy, conf., Univ. of Miami, Coral Gables, Fla. (D. R. Lehman, Air Force Office of Scientific Research, Tempo D, 4th and Independence Ave., SW, Washington, D.C.)

21-22. Physiology of Hemostasis and Thrombosis, 14th annual Wayne State Univ. symp. on blood, Detroit, Mich. (W. H. Seegers, Dept. of Physiology and Pharmacology, Wayne State Univ., Detroit)

22-27. American Acad. of Orthopedic Surgeons, Chicago, Ill. (J. K. Hart, 29 E. Madison, Chicago 2)

23-28. American Library Assoc., midwinter mtg., Chicago, Ill. (D. H. Clift, ALA, 50 E. Huron St., Chicago 60611) 24-26. Aerospace Sciences, 3rd mtg., American Inst. of Aeronautics and Astronautics, New York, N.Y. (AIAA, 1290 Sixth Ave., New York 10019)

24-26. Economic Geology in Massachusetts, conf., Amherst. (O. C. Farquhar, Geology Dept., Univ. of Massachusetts, Amherst 01003)

24-27. Modern Methods of Analytical Chemistry, 19th annual, Louisiana State Univ. symp., Baton Rouge. (P. W. West, LSU, Baton Rouge)

24–27. American Soc. of Heating, Refrigerating, and Air-Conditioning Engineers, semiannual mtg., Houston, Tex. (ASHRAE, 345 E. 47 St., New York)

24-27. American Meteorological Soc., 46th annual mtg., Denver, Colo. (K. C. Spengler, AMS, 45 Beacon St., Boston, Mass.)

24-28. Animal and Clinical Pharmacologic Techniques in Drug Evaluation, part 1, mtg., Philadelphia, Pa. (J. H. Nodine, Hahnemann Medical College and Hospital, 230 N. Broad St., Philadelphia 19102)

24-30. CNS-Drugs, symp., Regional Research Laboratory, Hyderabad, India. (P. B. Sattur, Regional Research Laboratory, Hyderabad 9)

25. Research and Industrial Applications of the Mössbauer Effect, New York, N.Y.
(M. Ress, New England Nuclear Corp., 575 Albany St., Boston, Mass.)
25-27. Reliability, 12th annual symp.,

25–27. Reliability, 12th annual symp., Inst. of Electrical and Electronics Engineers, San Francisco, Calif. (A. R. Park, General Precision Inc., 1378 Encinatas Rd., San Marcos, Calif.)



26. Current and Future Problems in Chemistry at High Temperatures, Rice Univ., Houston, Tex. (M. A. Paul, Div. of Chemistry and Chemical Technology, National Acad. of Sciences, Washington, D.C. 20418)

26-27. Sulfur, symp., Wilson Dam, Ala. (V. J. Kilmer, Div. of Agricultural Development, Tennessee Valley Authority, Wilson Dam 35661)

26-28. Light Nuclei, symp., Lyon, France. (R. Radvanyi, Lab. Joliot-Curie de physique nucléaire, Faculté des Sciences, B.P. 1, Orsay, France)

26-28. Mathematical Assoc. of America, 49th annual mtg., Chicago, Ill. (H. M. Gehman, State Univ. of New York, Buffalo 14214)

26-29. American Physical Soc., annual mtg., New York, N.Y. (K. K. Darrow, APS, 335 E. 45 St., New York 10017)

26–29. American Assoc. of **Physics Teachers**, annual mtg., New York, N.Y. (M. Phillips, Ryerson Physical Laboratory, Univ. of Chicago, Chicago, Ill. 60637)

27–29. American **Group Psychotherapy** Assoc., Philadelphia, Pa. (AGPA, 1790 Broadway, New York 10019)

27–29. International Medical Assembly of Southwest Texas, San Antonio. (S. E. Cockrell, Jr., 202 W. French Pl., San Antonio 78212)

28-4. Medical Ethics, seminar, London, England. (E. F. Shotter, Ciba Foundation, 41 Portland Pl., London, W.1)

28-29. Proteins, 21st conf., Rutgers Bureau of Biological Research, Rutgers Univ., New Brunswick, N.J. (R. L. Squibb, Rutgers Univ., New Brunswick)

30-4. Institute of Electrical and Electronics Engineers, Power Group, winter mtg., New York, N.Y. (E. C. Day, IEEE, 345 E. 47 St., New York 10017)

30-4. American Soc. for Testing and Materials, spring mtg., Washington, D.C. (T. A. Marshall, ASTM, 1916 Race St., Philadelphia 3, Pa.)

31–2. Information Theory, intern. symp., Inst. of Electrical and Electronics Engineers, Univ. of California, Los Angeles. (A. V. Balakrishnan, Dept. of Engineering, Univ. of California, Los Angeles 90024)

31-2. Solid Propellant **Rockets**, 7th conf. (American Inst. of Aeronautics and Astronautics, 1290 Sixth Ave., New York 10019)

31-3. Scientific Aspects of Pest Control, symp., Washington, D.C. (Agricultural Board, National Academy of Sciences, 2101 Constitution Ave., NW., Washington)

#### February

2-4. Aerospace and Electronic Systems, winter conv., Inst. of Electrical and Electronics Engineers, Los Angeles, Calif. (A. S. Jerrems, Aerospace Group, Hughes Aircraft Co., Culver City, Calif.)

2-6. American College of Cardiology, Chicago, Ill. (W. D. Nelligan, 9650 Rockville Pike, Bethesda, Md. 20014)

3-4. American Chemical Soc., 1st Middle Atlantic regional mtg., Philadelphia, Pa. (Philadelphia Section Office, ACS, 212 Harrison Laboratory, 34th and Spruce St., Philadelphia 19104)

3-9. Medical Education, congr., Chicago, Ill. (W. S. Wiggins, 535 N. Dearborn St., Chicago 60610)

SCIENCE, VOL. 150

## THE AMERICAN COLLEGE OF NEUROPSYCHOPHARMACOLOGY PRESENTS A MANUSCRIPT ON PREDICTION

Title: PREDICTION OF RESPONSE TO PHARMACOTHERAPY Editors: J. R. Wittenborn, Ph.D. and Philip R. A. May, M.D. Contributors

Ivan F. Bennett, M.D. Lilly Laboratory for Clinical Research and Indiana University School of Medicine

Jonathan O. Cole, M.D. Psychopharmacology Service Center NIMH

Solomon C. Goldberg, Ph.D. Psychopharmacology Service Center NIMH

Martin M. Katz, Ph.D. Psychopharmacology Service Center NIMH

Gerald L. Klerman, M.D. Massachusetts Mental Health Center and Harvard Medical School

Heinz E. Lehmann, M.D. Verdun Protestant Hospital and McGill University Philip R. A. May, M.D.

The Neuropsychiatric Institute Center for the Health Sciences, University of California at Los Angeles

George C. Stone, Ph.D. The Langley Porter Neuropsychiatric Institute

A. Hussain Tuma, Ph.D. Camarillo State Hospital

J. R. Wittenborn, Ph.D. **Rutgers Interdisciplinary Research Center Rutgers-The State University** 

The present volume is based on reports presented at a Workshop on Prediction held by the American College of Neuropsychopharmacology in Washington, D.C., on October 24, 1964. The program of this workshop was devoted to the problem of prediction in the development and use of pharmacotherapies for emotional disorders. The papers presented by the various members and guests of the College are representative of the more serious inquiries that are being conducted at the present time and reflect methodological and substantive advances of interest to both the investigator and the clinician. **Publisher: CHARLES C THOMAS, Springfield, Illinois, U.S.A.** January, 1966, Pp. 315, \$5.00 The American College of Neuropsychopharmacology comprises a group of 150 investigators. Its research aims include the ad-vancement of neuropsychopharmacology as an interdisciplinary field of scientific investigation and the refinement of clinical appli-cations of psychotropic drugs. The College serves the general scientific and medical community by providing scientific conferences wherein current research is presented for comment and discussion.

## PERSONNEL PLACEMENT-

CLASSIFIED: Positions Wanted. 25¢ per word, minimum charge \$4. Use of Box Number counts as 10 additional words. Payment in advance is required.

Payment in advance is required. COPY for ads must reach SCIENCE 2 weeks before issue date (Friday of every week). DISPLAY: Positions Open. Rates listed be-low—no charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Minimum ad: 1 inch. Ads over 1 inch will be billed to the nearest quarter inch. Frequency rate will apply only to repeat of same ad. No copy changes. Payment in advance is required except where satisfactory credit has been es-tablished. Send copy for display adver-tising to SCIENCE, Room 1740, 11 West 42 St., New York 36. Single insertion \$65.00 per inch

Single insertion 4 times in 1 year \$65.00 per inch 60.00 per inch

For PROOFS on display ads, copy must reach SCIENCE 4 weeks before date of issue (Friday of every week). Replies to blind ads should be addressed as follows:

Box (give number) SCIENCE 1515 Massachusetts Ave., NW Washington, D.C. 20005

POSITIONS WANTED

**Biomathematician, Ph.D.** Interested in cellular kinetics of growth and regeneration. Box 206, Lordan New Vork Jordan, New York.

**Experienced Technical Entomologist** and scientific illustrator wants position or free-lance assignments in industry or institution. Request reprints and samples. Box 311, SCIENCE. X

24 DECEMBER 1965

## POSITIONS WANTED

**Experimental Pathologist** with veterinary degree and 12 years of experience desires medium-level position in research or academic institution. Would bring own work and welcomes part-time teaching. Box 300, SCIENCE. 12/31

General Physiologist, Ph.D. seeks teaching-re-search position. Box 312, SCIENCE. 12/31; 1/7, 14, 21, 28

Horticulturist, Ph.D. Seeks research/teaching/ extension position. Box 315, SCIENCE. X

Senior Physiologist-Biochemist-Pharmacologist de-sires appointment. Box 316, SCIENCE. X

POSITIONS OPEN

#### **BIO-INSTRUMENTATION ENGINEER OR** CLINICAL CHEMIST

For product development in automated clinical analysis. Senior position with top scientists and engineers in Berkeley, California, area. Recent experience in advanced instrument design and knowledge of clinical analysis required. Top sal-ary. Stock option available. Send complete ré-sumé. **Box 310, SCIENCE.** 

**RESEARCH LABORATORY TECHNI-**CIAN-Biochemistry-Virology. To take responsibility for serum enzyme determinations and assist in studies involving radioactive nucleic acids. M.A. or B.S. required. Central Manhattan research institution. Excellent salary and fringe benefits. Write sending résumé to Box 318, SCIENCE.

## POSITIONS OPEN

#### PHYSIOLOGIST

To teach physiology and zoology. Ph.D. required. Salary and rank dependent upon background of applicant. Probable salary range: \$7500 to \$9000 for 9 months. Negotiable. Research encouraged. Send credentials to:

DR John L. Zaharis, Chairman Department of Biology Loyola College Baltimore, Maryland 21210

#### BIOLOGIST

Private undergraduate liberal arts college (1000 students) in New York Metropolitan Area needs Assistant Professor (Ph.D.) in Zoology Depart-ment. Appointment to strengthen area of physico-chemical biology and/or cell physiology. Poten-tially permanent. No summer obligations. All preliminary inquiries answered and held con-fidential. Box 298, SCIENCE.

Young, small West Coast university invites applications for two teaching-research positions: 1. Comparative Anatomist 2. Mammalian Physiologist

2. Mammanan rhysiologist Duties include lecturing in major to under-graduates, assisting in lower division biology in alternate semesters, and maintaining an active re-search effort. Duties to commence in fall of 1966. Rank and salary commensurate with ex-perience perience. Address inquiries or résumés to:

Chairman Department of Biology University of San Diego College for Men Alcala Park San Diego, California 92110

1757

## POSITIONS OPEN

Assistantships in University of Wisconsin Science Writing Program available in February and later. Assistants pursue higher degree in scientific field of their choice while receiving training and ex-perience in scientific communications fields. \$2960 on annual basis. Applicant must be acceptable to major department. Apply by letter, stating quali-fications and enclosing transcript, to: James A. Larsen, Science Editor University-Industry Research Program 316 North Park Street Madison, Wisconsin

## The WORLD HEALTH OR-GANIZATION has several va-

cancies in different parts of the world for epidemiologists, biologists, entomologists; and parasitologists, to work in field projects on bilharziasis, filariasis, onchocerciasis, and trypanosomiasis. The minimum qualifications required are degrees from recognized universities with specialization in the various aspects of tropical medicine, experience of the planning of field research projects in a variety of circumstances, and a good knowledge of English and/or French.

Interested candidates are invited to write for further details to: Chief, Personnel, World Health Organization, Palais des Nations, Geneva, Switzerland.

They should send a brief curriculum vitae and indicate the subject in which they are most interested. Replies should be postmarked not later than 15 February 1966.

## POSITIONS OPEN

Large Hematology research laboratory in Philadelphia medical school has opening for young Ph.D., Biochemist, interested in blood coagulation-enzyme research and teaching.

Box 317, SCIENCE.

**Zoology Major** (B.S. or M.S.) with knowledge embryology, for commercial production of icroscope slides and experimental materials for ides. Opportunity for administrative advance-

2. Microscope Slide Technician with knowledge of embryology for commercial production of em-bryological slides and preparation of experimental embryological material for slides. Starting salaries open, dependent upon qualifica-tions. Send résumé to Box 305, SCIENCE.

## UNIVERSITY OF QUEENSLAND VISITING RESEARCH VACANCY IN APPLIED MATHEMATICS

APPLIED MATHEMATICS The university invites applications from estab-lished postdoctoral research workers, in the field of fluid dynamics, heat convection and singular perturbations, who wish to spend a period work-ing on problems in this field in conjunction with the department's program. Applicants will be free to pursue their own research but will be expected to help where possible with the seminar and re-search projects of the fluid dynamics group. search projects of the hild dynamics group. One appointment will be made in 1966 for a pe-riod of from 3 to 10 months and a return econ-omy-class air fare will be paid for a stay exceed-ing 6 months. Shorter stays will qualify for a one-way air fare. The salary will be at the rate of from  $\pounds 2400$  to  $\pounds 3800$  per annum depending upon qualifications and experience.

Applications, giving qualifications, curriculum vitae, research publications, and referees, should be lodged with the **Registrar**, **University of Queensland**, **Brisbane**, **Australia**, not later than *31 January 1966*. Further information may be obtained from **Professor A. F. Pillow** of the **Mathematics Department**.

#### ELECTRON MICROSCOPIST

B.S. or M.A. in Biology. Diversified research program in cell biology and virology. Independence encouraged. Salary dependent on qualifications

Albert Einstein College of Medicine Bronx, New York 10461

New York, 12144

## PHARMACEUTICAL **RESEARCH POSITIONS**

The STERLING-WINTHROP RESEARCH INSTITUTE, located in Rensselaer, New York (near Albany), has openings for the following challenging positions. The Institute, with a staff of approximately 600, is the research division of Sterling Drug Inc., one of the world's largest producers of medicinal agents.

EXPERIMENTAL PATHOLOGIST-Ph.D. or equivalent with interest in the basic cellular mechanisms involved in the action of drugs, immunology and pathology of injury. Experience required.

ENDOCRINOLOGIST -Ph.D. in Endocrinology with interest in reproductive physiology. Will be involved in research investigations in various phases of our endocrine program.

PROGRAMMER with systems ability. Experience on IBM 1440 desirable. Background in science or business, both preferred.

EXCELLENT EMPLOYEE BENEFITS. SALARIES OPEN Please write to: Mr. C. E. Alford, Director of Personnel

STERLING-WINTHROP RESEARCH INSTITUTE

🖬 An Equal Opportunity Employer 🖬

#### **FELLOWSHIPS**

FELLOWSHIP IN ORTHOPEDIC RESEARCH The Research Institute for Skeletomuscular Dis-cases of the Hospital for Joint Diseases offers a broad, basic, flexible program. The program consists of didactic instruction, participation in current laboratory research, and opportunities for clinical research. Applicants should have com-pleted the clinical portion or all of an approved residence training program and be citizens of the United States or have permanent residence status. Appropriate stipends will be determined indi-vidually. Application should be made to Dr. Skeletomuscular Diseases, Hospital for Joint Dis-eases, 1919 Madison Ave., New York 10035.

## The Market Place

SUPPLIES AND EQUIPMENT

> SPRAGUE-DAWLEY, INC. Pioneers in the development of the STANDARD LABORATORY RAT. P.O. Box 4220 Madison, Wisconsin CE 3-5318

BOOKS AND MAGAZINES 

## Unpublished Manuscripts Wanted At Once

Send manuscript for free editorial report or write for Brochure sx. Pageant Press, Inc. 101 Fifth Avenue, New York 3, N.Y.

Published October 1965:

## SCIENCE IN JAPAN

496 pp., illus., bibliog., index, \$13.00 AAAS Members' Cash Orders \$11.00

This volume provides a unique opportunity for American scientists to get both a broad and a detailed picture of recent scientific and technological developments in Japan. Leading Japanese scientists discuss the organization of research in their country and review funda-mental research in mathematics, biology, chemistry, physics, sociology, and psychology as well as applied research in agriculture and other fields.

## AIR CONSERVATION

Report of the AAAS Air Conservation Commission

348 pp., illus., bibliog., index, \$8.0 AAAS Members' Cash Orders \$7.0

Part One, Air Conservation and Public Policy, assembles the facts and identifies al-ternatives. Part Two, Summary of the Facts, is a concise report on the state of scientific knowledge in the field of air conservation. Part Three, Background Reports, the larger part of the book, consists of seven chapters of interest to scientists and specialists in other disciplines.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

1515 Mass. Ave., NW, Washington, D. C. 20005

Rensselaer

## **Recent AAAS Symposium Volumes**

## #80. Air Conservation

October 1965. 348 pages. Illustrations. Bibliog-raphy. Index. The Report of the AAAS Air Conservation Commission, James P. Dixon, chairman. Of interest to scientists and specialists in other disciplines. Price: \$8.00. AAAS Member's Cash Price: \$7.00.

## #79. Science in Japan

October 1965, 496 pages. Illustrations. Bibliog-raphy. Index. Edited by: Arthur H. Livermore. A unique opportunity to get both a broad and a detailed picture of recent scientific and technological developments in Japan. Price: \$13.00. AAAS Member's Cash Price: \$11.00.

#### #78. Man, Culture, and Animals: The Role of Animals in Human Ecological Adjustments

August 1965. 304 pages. 10 illustrations. In-dexes. Edited by: Anthony Leeds and Andrew P. Vayda. Case studies of the relationships P. Vayda. Case studies of the relationships among human populations, the animals they use for food or food-getting, the plants signifi-cant for maintaining both animals and men, and the sociocultural usages by which plants, animals, and men are linked in eco-systems. *Price:* \$8.00. AAAS Member's Cash Price: \$7.00.

#### #77. Food Quality-Effects of Production Practices and Processing

March 1965. 306 pages. References. Index. Edited by: George W. Irving, Jr., and Sam R. Hoover. This volume covers an important and, in recent years, rapidly developing field of science: the production, protection, and processing of foodstuffs of high nutritional and esthetic value

Price: \$8.50. AAAS Member's Cash Price: \$7.50.

### **#76.** Agricultural Sciences for Developing Nations

1964. 230 pages. References. Index. Edited by: Albert H. Moseman Characteristics of agricultural systems in emerg-ing nations—Research to devise and adapt innovations-Education and development of human resources-Establishing indigenous institutions to serve advancing agriculture. Price: \$6.75. AAAS Member's Cash Price: \$6.00.

## #75. Mechanisms of Hard Tissue Destruction

1963. 776 pages, 430 illustrations. Edited by: Reidar F. Sognaes. Symposium by 49 out-standing coauthors on destruction of mineral-ized structures by organisms and by physical and chemical agents, ranging from rock boring to bone resorption and tooth decay.

Price: \$13.00. AAAS Member's Cash Price: \$11.00.

#### #74. Aridity and Man

1963. 2nd printing, 1965. 604 pages. 98 illustra-tions. Edited by: Carle Hodge and Peter C. Duisberg. "Best collection of background mawell balanced and highly readable terial . . ... probably the broadest and most nearly complete treatment of arid lands yet published." Journal of Forestry, May 1964. Price: \$12.00. AAAS Member's Cash Price: \$10.00.

### #72. Spermatozoan Motility

1962. 322 pages. 113 illustrations. Edited by: David W. Bishop. "This book is an excellent assemblage of recent findings and reports of new data relative to the perplexing problem of sperm motility and includes the opinions and ideas of cytolo-gists, biophysicists, biochemists and physiolo-gists." Journal of Animal Sciences, March 1963. Price: \$7.50. AAAS Member's Cash Price: \$6.50.

#### **#71.** Great Lakes Basin

1962. 320 pages. 92 illustrations. Edited by: Howard J. Pincus. Difficulty . . . in attempting to do justice to all the topics covered in a book as rich as this one in content, interpretation, and discus-sion. . . Highly recommended to scientist and layman alike." *Transactions, American Geophysical Union, December 1963. Price:* \$7.50. AAAS Member's Cash Price: \$6.50.

#### **#70.** Fundamentals of Keratinization

1962. 202 pages. 136 illustrations. Edited by: E. O. Butcher and R. F. Sognnaes. "This book . . . makes fascinating reading for all clinicians and research workers interested in keratinising tissues." Brit. Dental J., 1/15/63. Price: \$6.50. AAAS Member's Cash Price: \$5.75.

### #67. Oceanography

1961. 2nd printing, 1962. 665 pages. 146 illustrations. Edited by: Mary Sears. "I know of no other volume that so well de-fines oceanography, its purpose, opportunities and requirements."—Science, 9 June 1961 Price: \$14.75. AAAS Member's Cash Price: \$12.50.

#### #66. Germ Plasm Resources

1961. 394 pages. 59 illustrations. Edited by: Ralph E. Hodgson. "This book will be of interest to nonplant and animal breeders, for the rather general treatment of various topics . . . allows for rapid perusal."—Bulletin of the Entomological So-ciety of America, September 1961 Price: \$9.75. AAAS Member's Cash Price: \$8.50.

British Agents: Bailey Bros. & Swinfen, Ltd., Warner House, 48 Upper Thames Street, London, E.C.4

Clip out this Form, Fill in and Mail Today

Circle Volumes You Wish To Order			American Association for the Advancement of Science 1515 Massachusetts Avenue, NW Washington, D.C. 20005 Please send the symposium volumes circled on this form, to:
80	79	78	Name
77	76	75	
74	72	71	Address
70	67	66	City
\$ Payment Enclosed			<ul> <li>Please check:</li> <li>( ) I am a member of AAAS, and enclose payment for the volumes indicated at member prices.</li> <li>( ) I am not a member of AAAS.</li> <li>( ) Please send Membership Application Form.</li> </ul>

# If you need a simple, reliable, high-performance H<sup>3</sup> and C counter that gives you the most accurate information in the least time, select **Nuclear-Chicago's new** Model 6860.

Here are just a few of the innovations of this remarkable new liquid scintillation system:

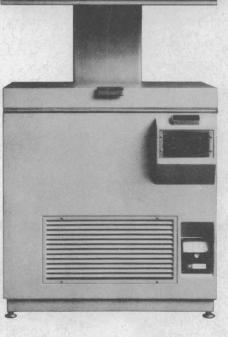
Integrated microcircuits and true electronic calculation for a new order of reliability and simplicity.

**Exclusive GEOMETRY-OPTIMIZED** external standardization for optimum reproducibility of quenched-sample data.

Combined channels-ratio and external-standardization efficiency determination for accurate counting of dual-labelled isotopes and for significantly less volume dependence.

Specially selected multiplier phototubes along with excellent optics and shielding for maximum efficiency and lowest background.

Your Nuclear-Chicago sales engineer has the rest of the details. Consult him or write directly to us. NUC: 8-5-220





Amsterdam W, The Netherlands

Scientists and engineers interested in challenging career opportunities are invited to contact our personnel director.