

**A Resource
Guide
for Health
Science
Students**

**OCCUPATIONAL
AND
ENVIRONMENTAL
HEALTH**



**U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
Public Health Service
Center for Disease Control
National Institute for Occupational Safety and Health**

NIOSH

Division of Training and Manpower Development

and the American Medical Student Association

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

A Resource Guide for Science Students

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NIOSH
Division of Training and
Manpower Development

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
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National Institute for Occupational Safety and Health

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FOREWORD

The National Institute for Occupational Safety and Health is pleased to participate in producing and distributing this resource booklet developed by The American Medical Student Association. We feel that it will be a valuable resource to health science students in identifying and participating in relevant and exciting experience which will complement their formal educational program, as well as identifying a broader range of career opportunities in occupational safety and health.

NIOSH participation in providing this directory does not necessarily constitute an endorsement of all of the policies or approaches of the listed organizations. However, we feel that an experience or employment with one or more of them would not only provide a valuable new facet to the total training and education experience of the individual, but also strengthen the professionalism and credibility of the operations of the employing organization. The net effect will be to advance the mission of NIOSH and interests of all in improved worker health and safety.

Anthony Robbins, M.D.
Director
National Institute for
Occupational Safety and Health

CONTENTS

FOREWORD	iii
INTRODUCTION	1

Sequence No.		Page
1	NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH	2
2	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	4
3	NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES	6
4	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	7
5	NATIONAL CANCER INSTITUTE	11
6	CONSUMER PRODUCT SAFETY COMMISSION	11
7	FOOD AND DRUG ADMINISTRATION	12
8	CENTER FOR DISEASE CONTROL	12
9	OCCUPATIONAL HEALTH AND SAFETY EDUCATIONAL RESOURCE CENTERS	12
10	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER	13
11	JOHNS HOPKINS SCHOOL OF HYGIENE AND PUBLIC HEALTH	13
12	UNIVERSITY OF NORTH CAROLINA SCHOOL OF PUBLIC HEALTH	13
13	UNIVERSITY OF WASHINGTON	14
14	UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE	14
15	HARVARD SCHOOL OF PUBLIC HEALTH	14
16	UNIVERSITY OF MINNESOTA SCHOOL OF PUBLIC HEALTH	15
17	UNIVERSITY OF ARIZONA HEALTH SCIENCES CENTER	15
18	UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER	16
19	MOUNT SINAI SCHOOL OF MEDICINE	16
20	UNIVERSITY OF CALIFORNIA, IRVINE	16
21	COMMITTEE/COALITION/COUNCIL ON OCCUPATIONAL SAFETY AND HEALTH	
	— COSH: AN OVERVIEW	17
22	TENNESSEE — TNCOSH	17
23	WISCONSIN — WISCOSH	18
24	MARYLAND COSH	18
25	WESTERN NEW YORK — WNYCOSH	18
26	RHODE ISLAND — RICOSH	19
27	PHILADELPHIA — PHILAPOSH	19
28	NORTH CAROLINA — NCOSH	20
29	NEW YORK — NYCOSH	20
30	NEW JERSEY — NJCOSH	21

Sequence No.		Page
31	MASSACHUSETTS — MASSCOSH	21
32	CHICAGO AREA — CACOSH	21
33	INDUSTRIAL UNION DEPARTMENT, AFL-CIO	21
34	OIL, CHEMICAL AND ATOMIC WORKERS INTERNATIONAL UNION	22
35	UNITED AUTOMOBILE WORKERS	23
36	AMALGAMATED CLOTHING AND TEXTILE WORKERS UNION, AFL-CIO	23
37	UNITED RUBBER, CORK, LINOLEUM AND PLASTIC WORKERS OF AMERICA, AFL-CIO	24
38	UNITED RUBBER WORKERS LOCAL 26	24
39	INTERNATIONAL CHEMICAL WORKERS UNION	24
40	UNITED ELECTRICAL, RADIO, AND MACHINE WORKERS OF AMERICA (UE)	25
41	INTERNATIONAL UNION OF ELECTRICAL RADIO AND MACHINE WORKERS (AFL-CIO) (UE)	25
42	UNITED MINE WORKERS OF AMERICA	25
43	UNITED STEELWORKERS OF AMERICA	25
44	UNITED PAPERWORKERS	25
45	UTILITY WORKERS UNION OF AMERICA	26
46	INTERNATIONAL ASSOCIATION OF MACHINISTS AND AEROSPACE WORKERS	26
47	UNITED BROTHERHOOD OF CARPENTERS AND JOINERS	26
48	AMALGAMATED MEAT CUTTERS	26
49	GLASS WORKERS UNION OF NORTH AMERICA	26
50	ALUMINUM WORKERS INTERNATIONAL UNION	27
51	INTERNATIONAL BROTHERHOOD OF TEAMSTERS	27
52	LABOR OCCUPATIONAL HEALTH PROGRAM	27
53	NEW YORK STATE SCHOOL OF INDUSTRIAL AND LABOR RELATIONS	27
54	URBAN ENVIRONMENT CONFERENCE	27
55	ECOLOGY CENTER OF LOUISIANA, INC.	28
56	LABOR SAFETY AND HEALTH INSTITUTE	28
57	OHIO STATE UNIVERSITY LABOR EDUCATION AND RESEARCH SERVICE	28
58	SIERRA CLUB	29
59	SIERRA CLUB — NEW JERSEY CHAPTER	29
60	UNIVERSITY OF WISCONSIN EXTENSION — SCHOOL FOR WORKERS	29
61	WESTERN INSTITUTE FOR OCCUPATIONAL/ENVIRONMENTAL SCIENCES, INC.	30
62	HUDSON RIVER SLOOP CLEARWATER, INC.	30
63	NEW MEXICO OCCUPATIONAL HEALTH PROGRAM	31
64	HEALTH POLICY ADVISORY CENTER	31
65	PUBLIC CITIZEN HEALTH RESEARCH GROUP	32
66	INSTITUTE FOR LABOR EDUCATION AND RESEARCH	32
67	NATURAL RESOURCES DEFENSE COUNCIL	33
68	OCCUPATIONAL HEALTH MEDIA PROJECT	33
69	PUBLIC RESOURCE CENTER	33
70	UNION OF CONCERNED SCIENTISTS	34
71	NATIONAL URBAN LEAGUE	34

Sequence No.		Page
72	RACHEL CARSON TRUST FOR THE LIVING ENVIRONMENT	34
73	SCIENTISTS INSTITUTE FOR PUBLIC INFORMATION	34
74	SOCIETY FOR OCCUPATIONAL AND ENVIRONMENTAL HEALTH	34
75	WOMEN'S OCCUPATIONAL HEALTH RESOURCE CENTER	35
76	SOLAR LOBBY	35
77	CENTER FOR THE BIOLOGY OF NATURAL SYSTEMS	35
78	NATIONAL CONSUMER LAW CENTER	36
79	SANE, COMMITTEE FOR A SANE NUCLEAR POLICY	36
80	CALIFORNIA PUBLIC POLICY CENTER	36
81	NUCLEAR INFORMATION AND RESOURCE SERVICE	36
82	CITIZENS FOR A BETTER ENVIRONMENT	37
83	SCIENCE FOR THE PEOPLE	37
84	AMERICAN OCCUPATIONAL MEDICAL ASSOCIATION	37
85	AMERICAN ACADEMY OF OCCUPATIONAL MEDICINE	38
86	INDUSTRIAL HEALTH FOUNDATION, INC.	38
87	COUNCIL ON OCCUPATIONAL RESPIRATORY DISEASE	38
88	MOBILIZATION FOR SURVIVAL	39
89	CRITICAL MASS ENERGY PROJECT	39
90	ENVIRONMENTAL COALITION ON NUCLEAR POLLUTION	39
91	INSTITUTE FOR POLICY STUDIES	39
92	COMMITTEE OF ATOM BOMB SURVIVORS	39
93	AMERICAN LUNG ASSOCIATION	40
94	AMERICAN PUBLIC HEALTH ASSOCIATION	40
95	CENTER FOR OCCUPATIONAL HAZARDS, INC.	41
96	CONSERVATION FOUNDATION	41
97	ENVIRONMENTAL ACTION	41
98	ENVIRONMENTAL DEFENSE FUND	42
99	ENVIRONMENTAL POLICY INSTITUTE	42
100	CENTER FOR SCIENCE IN THE PUBLIC INTEREST	43
101	ENVIRONMENTALISTS FOR FULL EMPLOYMENT	43
102	FRIENDS OF THE EARTH	43
103	NATIONAL CENTER FOR APPROPRIATE TECHNOLOGY	44
104	NATIONAL ENERGY INFORMATION CENTER	44
105	TOTAL ENVIRONMENTAL ACTION	44
106	WIND ENERGY SOCIETY OF AMERICA	45
107	WOOD ENERGY INSTITUTE	45
108	NATIONAL SOLAR HEATING AND COOLING INFORMATION CENTER	45
109	ACTION ON SMOKING AND HEALTH	45
110	CONSUMERS UNION	46
111	CONSUMER FEDERATION OF AMERICA	46
112	ENVIRONMENTAL IMPROVEMENT ASSOC.	46
113	FEDERATION OF AMERICAN SCIENTISTS	46
114	NATIONAL CLEAN AIR COALITION	46

Sequence No.		Page
115	COMMITTEE FOR NUCLEAR RESPONSIBILITY	47
116	ALTERNATIVE ENERGY ASSOCIATION OF AMERICA	47
117	ALTERNATIVE ENERGY RESOURCES	47
118	ALTERNATIVE TECHNOLOGIES ASSOCIATION	47
119	CENTER FOR ENERGY AND MINERAL RESOURCES	48
120	CENTER FOR ENERGY POLICY AND RESEARCH	48
121	CITIZENS UNITED FOR RESPONSIBLE ENERGY	48
122	ECOTOPE GROUP	48
123	ENERGY INFORMATION CENTER	48
124	ENVIRONMENTAL ACTION REPRINT SERVICE	49
125	GEOTHERMAL RESOURCES COUNCIL	49
126	MIDWEST ENERGY ALTERNATIVES	49
127	MASSACHUSETTS PUBLIC INTEREST RESEARCH GROUP (Mass PIRG)	49
128	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	49
129	POTOMAC ALLIANCE	50
130	TASK FORCE AGAINST NUCLEAR POLLUTION, INC.	50
131	SUPPORTERS OF SILKWOOD	51
132	SOUTHWEST RESEARCH AND INFORMATION CENTER	51
133	AMERICAN HEALTH FOUNDATION	51
134	CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS, DOSH	51
135	NEW YORK PUBLIC INTEREST RESEARCH GROUP, INC. (NYPIRG)	52
136	DEPARTMENT OF SOCIAL MEDICINE	52
137	COMMISSION FOR THE ADVANCEMENT OF PUBLIC INTEREST ORGANIZATIONS . . .	53
138	ALBERTA WORKERS' HEALTH, SAFETY AND COMPENSATION	53
139	PHYSICIANS FOR SOCIAL RESPONSIBILITY	54
	GEOGRAPHICAL INDEX	55

INTRODUCTION

As occupational and environmental health gain in importance, increasing numbers of students would like to become involved. Many of us find that extracurricular learning is an appropriate and exciting way to approach this field, and are on the lookout for jobs, volunteer opportunities, speakers, and readings. This booklet is an attempt to direct students to learning opportunities. Students who use the booklet should treat it as a starting point. Be prepared to take plenty of initiative, to make multiple inquiries, and in some cases to create opportunities!

The booklet originated with a questionnaire sent to a large number of organizations in June, 1979 by the American Medical Student Association's Occupational and Environmental Health Task Force. During the following autumn, students tabulated and edited the responses, and sent follow-up inquiries to nonresponders. NIOSH is collaborating in publishing and distributing the survey as part of its ongoing efforts to improve training and education in occupational health. Thanks go to the medical students who contributed their scarce time to help with the editing: Pete Barker (University of Maryland), Eve Caligor, Vicki Heller, and Kathy Rosenthal (Harvard), and Craig Zwerling (Case Western Reserve); to Dr. David Wegman of the Harvard School of Public Health for initial encouragement; to all the busy people who filled out questionnaires; and especially to Dr. Alan Stevens of NIOSH's Division of Training and Manpower Development, our guiding light at the Institute. Although compiled with medical students in mind, the booklet will hopefully be of use to all health science students.

We have made every effort to be complete, but we have no doubt inadvertently omitted important resources. Similarly, although we have striven to be accurate, our condensed descriptions may contain some errors. Such omissions and errors are, of course, our fault, and reflect neither value judgements nor NIOSH policy. Another major shortcoming of the booklet is the prevalence of nonresponders. These have been listed so that students who wish to contact them may do so; we hope for a better response rate next time around. Our next set of questionnaires will be mailed in June, 1980, for a 1981 edition of the booklet. We would be very grateful for any suggestions of additional organizations, for any corrections, and for student reports of the use of listed resources. Feedback should be sent to:

Occupational and Environmental Health Task Force
American Medical Student Association
14650 Lee Road
P.O. Box 131
Chantilly, VA 22021

We sincerely hope that this booklet will contribute, in a small way, to the growing involvement of health science students in improving occupational and environmental health.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 1

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
5600 Fishers Lane
Rockville, MD 20857

Cincinnati Laboratory: 4676 Columbia Parkway
Cincinnati, Ohio 45226
Morgantown Laboratory: 944 Chestnut Ridge Rd.
Morgantown, WV 26505

The National Institute for Occupational Safety and Health (NIOSH) is the principal Federal agency engaged in research to eliminate on-the-job hazards to the health and safety of America's working men and women. Part of the U.S. Department of Health, Education, and Welfare, NIOSH is headquartered in Rockville, Maryland. Its research facilities are located in Cincinnati, Ohio, and Morgantown, West Virginia. The Institute has five major responsibilities:

1. Conduct research on the impacts of Industrial chemicals, physical factors within the industrial environment, and industrial processes on human health and safety.
2. Perform surveillance of the effects on human health and safety of actual conditions on the job.
3. Disseminate to both employees and employers information on the hazards to safety and health from occupational exposures to various chemical and physical influences, on how possible problems can be detected, and on the most effective means for avoiding or controlling the effects of these hazards.
4. In conjunction with the Occupational Safety and Health Administration (OSHA) of the United States Department of Labor, provide training so that necessary personnel are available to safeguard employee health and safety.
5. Prepare and transmit to OSHA recommendations on criteria for recognition of adverse effects by chemical and physical agents on the health of employees and on the limits that should be promulgated as mandatory standards to control them.

NIOSH offers a number of placements for medical students.

Two-to-three month clerkships in occupational medicine are available through the Medical Section of the Hazard Evaluation and Technical Assistance Branch (HETAB), which provides medical input for many NIOSH activities and is particularly concerned with the evaluation of persons occupationally exposed to potentially hazardous substances. HETAB Medical Section clerkships involve temporary commissioning in the Public Health Service through its COSTEP (Commissioned Officer Student Training and Extern) Program.

During a HETAB clerkship, students will work closely with Section physicians and nurses, as well as with industrial hygienists and other professionals with various related specialties. These officers will be assigned

A Resource Guide for Health Science Students

to the Medical Section, HETAB and further assigned to a preceptor who will be primarily responsible for his learning experience. COSTEP officers will participate in field evaluations and studies encompassing a wide variety of occupational problems, and take part in other Section activities. Program activities can be divided into three general areas:

1. Hazard evaluations, technical assistance and research projects.
2. Conferences.
3. Basic reading and literature reviews.

Hazard evaluations, technical assistance and research projects constitute the major responsibilities of the Medical Section, HETAB. Hazard evaluations result from formal requests by employees or employers to determine if a substance is found in the workplace. Requests for this service are received from both large and small industry scattered throughout the United States and involve the entire gamut of toxic agents found in occupational environments. An appropriate physician and the COSTEP will be assigned to each hazard evaluation request. After familiarizing themselves with the known effects of suspected hazardous agents, an epidemiologic approach to the problem is formulated. Accompanied by an industrial hygienist, an on-site visit is made to assess the situation. Workers are interviewed and examined when appropriate, while environmental sampling is performed. Biologic sampling and laboratory tests are frequently required. Following the initial evaluation, meetings are held to discuss the findings and to determine the necessity for further studies or whether recommendations can be based on the information obtained. Technical assistance in occupational health matters is provided to unions, industry and governmental units upon request. Research projects may grow out of either Hazard Evaluations or Technical Assistance requests when it becomes evident that in-depth study is essential to fully explore the problem. Obviously the potential for the development of such projects is great and they may generate data which is useful for setting Federal standards and which may warrant publication in scientific journals.

Hazard and technical assistance evaluations have involved, for example, carbon disulfide in the synthetic yard industry; organo-phosphate pesticide exposure in agricultural workers; cutting oil dermatitis in machinists; dermatitis due to epoxy plastics; serum hepatitis in the plasma fractionation industry; allergy in penicillin producers; hysteria in office workers; and respiratory tract symptomatology due to polyvinyl chloride fumes widely used in meat wrapping.

Weekly conferences are held to discuss the progress of Hazard Evaluations. A recent addition to the COSTEP program is a period of time which the COSTEP officer spends with the staff and residents in occupational medicine at the Kettering Laboratory. During this period he will have the opportunity to work in outpatient clinics, attend seminars and conferences with medical students from the University of Cincinnati College of Medicine and pursue areas of special interest.

Through this program, NIOSH offers a unique and meaningful experience in occupational medicine and industrial toxicology. Interested students may contact Dr. Theodore Thoburn, Acting Chief, Medical Section, HETAB, NIOSH, 4676 Columbia Parkway, Cincinnati, Ohio 45226, or call 513-684-2732. Since commissioning may require several months, students should contact the Program well in advance of their fellowship period.

Another opportunity in NIOSH is the Division of Surveillance, Hazard Evaluations and Field Studies, which is responsible for most of NIOSH's epidemiologic field studies. DSHEFS is actively recruiting medical students for one-to-three month elective periods. In these electives, students have the opportunity to accompany NIOSH field teams of physicians and industrial hygienists on visits to factories to perform health hazard evaluations. These field evaluations, which are often conducted on short notice, cover the whole gamut of problems in industrial health from exposures to known toxins such as lead and asbestos and, to illnesses caused by such exotic materials as rare earths and the newer plastics. Students have the

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

opportunity to participate actively in the field evaluations and in epidemiologic analysis of field data. Students in the DSHEFS elective also have the opportunity to participate in the weekly lecture series and seminars in occupational health. For more information, contact Philip J. Landrigan, M.D., Director, Division of Surveillance, Hazard Evaluations and Field Studies, at the Cincinnati Office, (513) 684-2427.

Finally, individual research projects within NIOSH often have a role for medical student participants. Those interested should contact researchers directly.

NIOSH publishes and distributes a wide variety of documents on various occupational safety and health topics. These include criteria documents which review the health effects of specific toxic substances, booklets on hazard recognition and industrial hygiene practices, and an excellent book, *Occupational Diseases: A Guide to Their Recognition* (DHEW NIOSH Publication No. 77-181). These materials may be obtained through NIOSH Regional Offices in the following cities:

Region I	Boston	(617) 223-6668
Region II	New York	(212) 264-2485
Region III	Philadelphia	(215) 596-6716
Region IV	Atlanta	(404) 881-4474
Region V	Chicago	(312) 886-3881
Region VI	Dallas	(214) 665-3081
Region VII	Kansas City, MO.	(816) 374-5332
Region VIII	Denver	(303) 837-3979
Region IX	San Francisco	(415) 556-3781
Region X	Seattle	(206) 442-0530

Sequence No. 2

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

Personnel Office, Room N-3308

Third St. and Constitution Ave., N.W.

Washington, DC 20210

Telephone: (202) 523-8013

The Occupational Safety and Health Administration is the federal agency within the Department of Labor that sets and enforces job safety and health standards in the private sector. In addition, the agency promotes voluntary compliance with its workplace regulations through a variety of consultation, training, education and information programs for workers and management. OSHA approves and monitors the operations of states that have chosen to administer their own occupational safety and health programs. The agency was created by the Occupational Safety and Health Act of 1970 and currently has jurisdiction over about 5 million workplaces where approximately 62 million workers are employed.

OSHA offers no volunteer positions but does employ college and graduate students, including medical students, in non-clerical positions through three programs:

1. *federal summer jobs program.* Medical student could qualify for professional, technical, or scientific jobs at the GS-4, 5, 7, or 9 level. Most summer positions in OSHA are located in Washington, D.C. and are filled through the Department of Labor's Personnel Office. Applicants must file a completed federal Form 171 and a transcript and/or letter of acceptance to medical school by April 1 with: Department of Labor, Summer Employment Coordinator, Office of Special Personnel Service, Washington, D.C. 20210.

A Resource Guide for Health Science Students

2. *summer intern program.* This program was created expressly to introduce talented student leaders to federal government operations through summer work. Federal agencies, including OSHA, recruit for these positions through selected universities. Initially, a campus-wide competition is held by the school to determine its nominees. To be eligible to compete, medical students must be in the top half of their class and show above average qualities through academic and extra-curricular activities.

Medical students hired as interns would serve in professional positions at the GS-4, 5, 7, or 9 level. Interested applicants should ask their university's placement officer whether their school has been asked by OSHA to sponsor a competition for summer interns.

3. *direct summer hiring.* Depending on the agency's financial appropriation, OSHA may be able to hire directly a few students for summer work in its Washington, D.C. national office. Medical students are eligible to apply for any available positions, probably GS-4, 5, 7, or 9 professional jobs. OSHA offices that might be particularly able to use a medical student's skills are: the Directorate of Technical Support, which provides comprehensive scientific, technical, and engineering information to the agency; and the Directorate of Health Standards, which develops mandatory workplace regulations to protect workers from occupational illness or disease. The specific duties of summer employees would vary according to the needs of the office directors. Interested medical students should submit a completed Form 171 and transcript by April 1 to the Labor Department's Summer Employment Coordinator at the address listed earlier.

OSHA's national office occasionally hires students on a part-time basis to work no more than 1,040 hours during the school year. Such appointments most often follow summer employment with the agency.

OSHA will provide speakers for medical student groups whenever possible. Inquiries should be directed to the nearest OSHA Regional Office listed below:

Region I (CT, ME, MA, NH, RI, VT)
JFK Federal Bldg., Room 1804
Government Center
Boston, MA 02203

Region II (NY, NJ, PR, VI, CZ)
Room 3445, 1 Astor Place
1515 Broadway
New York, NY 10036

Region III (DE, DC, MD, PA, VA, WV)
Gateway Bldg., Suite 2100
3535 Market St.
Philadelphia, PA 19104

Region IV (AL, FL, GA, KY, MS, NC, SC, TN)
1375 Peachtree St., N.E.
Suite 587
Atlanta, GA 30309

Region V (IL, IN, MN, MI, OH, WI)
230 S. Dearborn St.
32nd Floor, Room 3263
Chicago, IL 60604

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Region VI (AR, LA, NM, OK, TX)
555 Griffin Square, Room 602
Dallas, TX 75202

Region VII (IA, KS, MO, NE)
911 Walnut St., Room 3000
Kansas City, MO 64106

Region VIII (CO, MT, ND, SD, UT, WY)
Federal Bldg., Room 1554
1961 Stout St.
Denver, CO 80294

Region IX (CA, AZ, NV, HI)
Box 36017
450 Golden Gate Ave.
San Francisco, CA 94102

Region X (AK, ID, OR, WA)
Federal Office Bldg., Room 6002
909 First Ave.
Seattle, WA 98174

Booklets on federal summer jobs, the summer intern program, and Form 171's are available from any of the Office of Personnel Management's Federal Job Information Centers across the country; these materials may also be obtained by contacting the Washington, D.C. Federal Job Information Center, 1900 E St. NW, Washington, D.C. 20415 (Phone: (202) 737-9616).

OSHA offers a number of free pamphlets describing the agency, as well as various technical and scientific booklets on occupational safety and health. A publications catalog may be ordered by writing OSHA Publications, Room S-1212, Washington, D.C. 20210.

Sequence No. 3

NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES

P.O. Box 12233

Research Triangle Park, NC 27709

**Contact Persons: Hugh James Lee or Tom Hawkins
Information Office**

NIEHS is a component of the National Institutes of Health, the only Institute not located in Bethesda, Md. As such, it comes under the Public Health Service, and ultimately, the Department of Health and Welfare. It is the principal Federal agency for biomedical research on the effects of environmental agents on human health.

NIEHS hires students as part of a year-round "stay in school" program and for full-time summer jobs. Tasks range from clerical work to research assisting. Qualifications sought are as varied as the jobs, but the education and experience of medical students might be valuable in obtaining desirable assignments. Volunteers are not regularly recruited, but students with particular interests may contact the Information Office to be routed to appropriate scientists.

A Resource Guide for Health Science Students

NIEHS publicizes its seminars and conferences in media available to nearby university students. Although it does not maintain a speaker's bureau as such, some scientists have spoken on their areas of expertise by invitation.

NIEHS publishes a variety of material of interest to students. Booklets include *Preventing Environmentally-Related Diseases* (DHEW Publication No. NIH 76-1071), *Basic Concepts of Environmental Health* (DHEW Publication No. NIH 78-1254), and an annual directory of its research programs, all available from the Institute. In addition, NIEHS publishes a bimonthly journal, *Environmental Health Perspectives*, which contains proceedings of conferences and workshops, articles, papers, and "state of the art" reviews. *EHP* issues have been devoted to:

- *Scientific Aspects of Polybrominated Biphenyls (PBBs) (Vol. 23)
 - *Air Pollution and Human Health Extrapolation from Animal to Man (Vol. 22)
 - *Vinyl Chloride Related Compounds (Vol. 21)
 - *Arsenic and Lead (Vol. 19)
 - *Target Organ Toxicity: Development (Vol. 18)
 - *WHO/NIEHS Symposium on Plastics Manufacture (Vol. 17)
 - *Target Organ Toxicity: Lung (Vol. 16)
- *The journal is available on a subscription or single copy basis from the U.S. Government Printing Office, Washington, D.C. 20402.

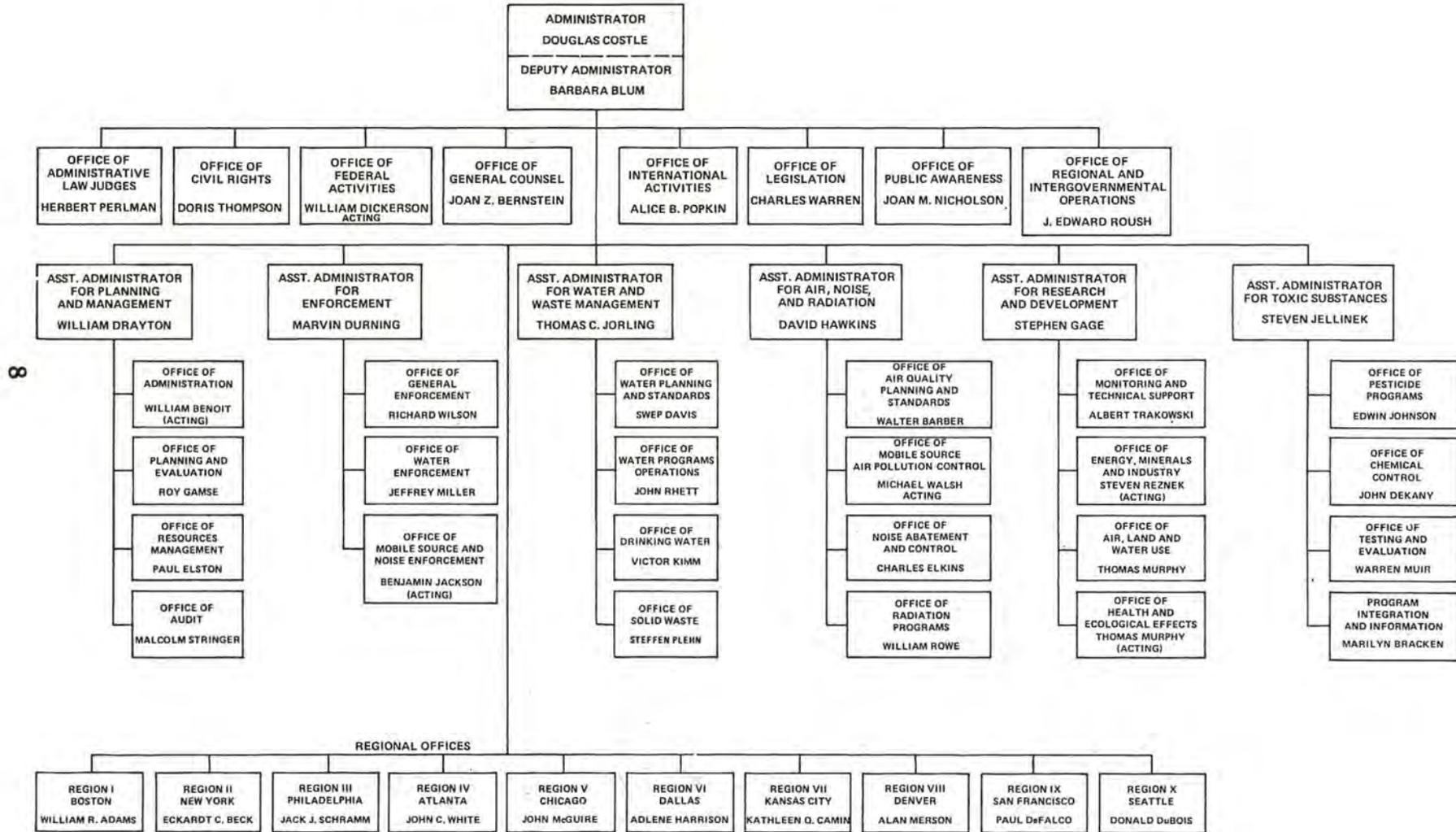
Finally, NIEHS administers an Extramural Training Program which provides post-doctoral fellowship support to trainees in Environmental Toxicology, Environmental Pathology, Environmental Mutagenesis, and Environmental Epidemiology and Biostatistics. For more information contact Dr. Christopher Schonwalder at NIEHS.

Sequence No. 4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, DC 20460

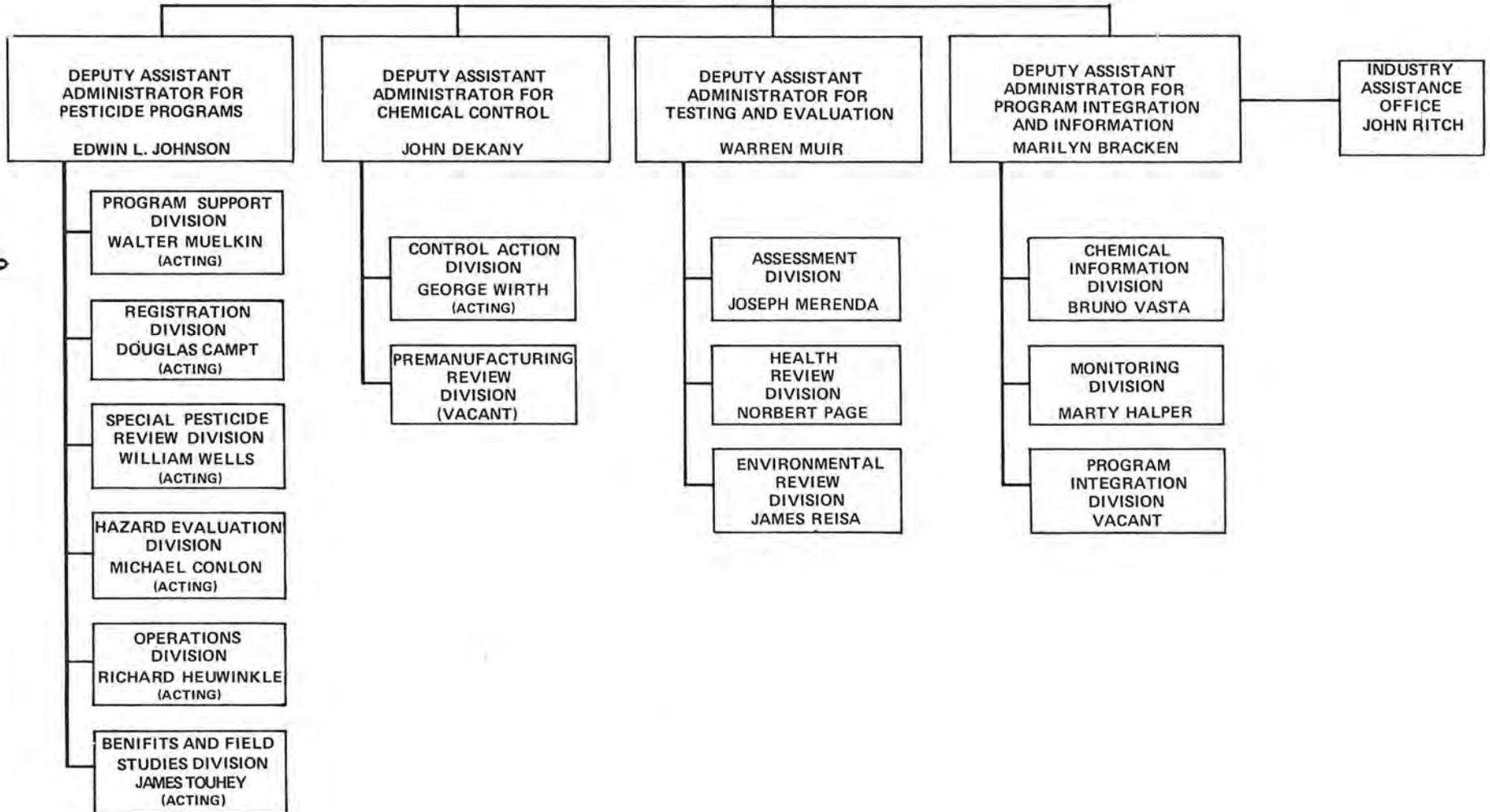
The EPA is an independent federal agency which sets and enforces standards for environmental protection. EPA did not respond to our inquiry. Students interested in employment with the EPA might find these organizational charts useful:

U. S. ENVIRONMENTAL PROTECTION AGENCY

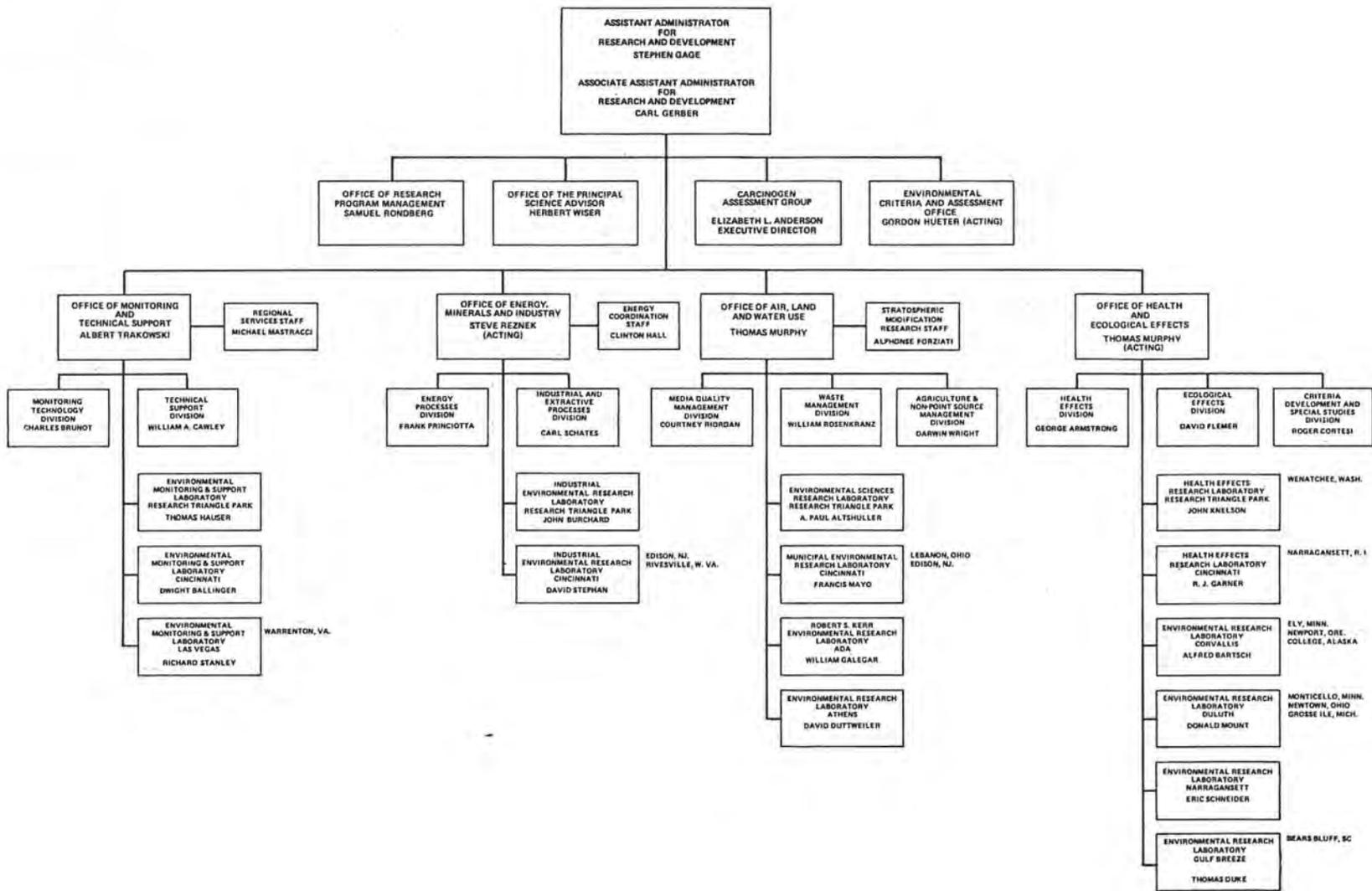


OFFICE OF TOXIC SUBSTANCES

ASSISTANT ADMINISTRATOR
FOR
TOXIC SUBSTANCES
STEVEN JELLINEK



OFFICE OF RESEARCH AND DEVELOPMENT



A Resource Guide for Health Science Students

Sequence No. 5

NATIONAL CANCER INSTITUTE

National Institutes of Health

Bethesda, MD 20205

Contact Person: Robert J. Avery, Jr., Chief
Public Inquiries Section
Office of Cancer Communications

The NCI is the Federal Government's principal agency for research on cancer prevention, diagnosis, treatment, and rehabilitation, and for dissemination of information for the control of cancer. The Institute is one of 11 research Institutes and 4 Divisions that form the National Institutes of Health, located in Bethesda, Maryland. As an agency of the Department of Health, Education, and Welfare, the National Cancer Institute receives annual appropriations from Congress. These funds support cancer research in the Institute's Bethesda headquarters and in about 1,000 laboratories and medical centers throughout the United States. Examples of particular interest include research on the process of cancer causation by chemicals, and program development in cancer control.

NCI reported no student placements. Interested students might direct inquiries to the address above.

NCI's National Cancer Program maintains an active Speaker's Bureau, and can provide speakers suitable for student audience on topics like environmental carcinogenesis and occupational cancer. For more information, contact:

NCP Speakers Bureau
Office of Cancer Communications
National Cancer Institute
Building 31 Room 4B43
Bethesda, MD 20014
(301) 496-5585

NCI distributes a publications list, whose entries are generally directed toward patient and public audiences. One useful item is a booklet, *Asbestos Exposure: What to Know, What to Do*, available free from:

Publication Order
Office of Cancer Communications
National Cancer Institute
Building 31, Room 10A18
Bethesda, MD 20205
(800) 638-6694

Sequence No. 6

CONSUMER PRODUCT SAFETY COMMISSION

1111 18th St. NW

Washington, DC 20207

Contact Person: John Bell
Office of Media Relations

To reduce the number of accidents and deaths which result from consumer products, Congress in 1972 enacted the Consumer Product Safety Act. The Consumer Product Safety Commission was activated as

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

an independent Federal regulatory agency in May, 1973. In its effort to protect the public, the CPSC:

- enacts mandatory safety standards
- participates in industry efforts to develop voluntary safety standards
- bans products for which no feasible safety standard would adequately protect the public
- seeks, negotiates and monitors corrective action plans for products which may present a substantial hazard to consumers
- informs and educates consumers about product hazards
- conducts research and develops test methods
- collects and publishes injury and hazard data
- promotes uniform product regulations by government units

The CPSC has a summer internship program in which students communicate with the press and the public, and research health and safety issues. Qualifications include background in chemistry and physiology, idealism, and writing ability. The salary is \$200/week.

The CPSC maintains a telephone Hotline which provides information and accepts reports on product-related hazards and injuries. The toll-free number is (800) 638-8326. Maryland residents call (800) 492-9363. Callers from Alaska, Hawaii, Puerto Rico, and the Virgin Islands should dial (800) 638-8333.

CPSC reports no available speakers and no written materials.

Sequence No. 7

FOOD AND DRUG ADMINISTRATION
5600 Fishers Lane
Rockville, MD 20857

NON-RESPONDER

Sequence No. 8

CENTER FOR DISEASE CONTROL
Atlanta, GA 30333

NON-RESPONDER

Sequence No. 9

**OCCUPATIONAL HEALTH AND SAFETY EDUCATIONAL RESOURCE CENTERS:
AN OVERVIEW**

Educational Resource Centers are multidisciplinary centers of occupational health training, funded by NIOSH since 1977. Generally, an ERC includes both a medical school and a school (or department) of public health. Each of the 12 centers provides training at the undergraduate, graduate, and post-doctoral levels, in medical, nursing, public health, and engineering aspects of occupational safety and health. In addition, they conduct epidemiologic studies, consult with management, labor, and government agencies, conduct public educational programs, and may provide clinical care. Medical student education is one of

A Resource Guide for Health Science Students

the explicit responsibilities of the ERC's, and they comprise a valuable set of resources for students. The 11 entries which follow describe specific opportunities at each ERC.

Sequence No. 10

Educational Resource Center
UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER
P.O. Box 20186
Houston, TX 77025
(713) 792-4300

NON-RESPONDER

Sequence No. 11

Educational Resource Center
Division of Occupational Medicine
JOHNS HOPKINS SCHOOL OF HYGIENE AND PUBLIC HEALTH
615 NO. Wolfe St., Room 7032
Baltimore, MD 21205

Contact Person: Dr. Edward A. Emmett

The Division of Occupational Medicine is a component of both the School of Medicine and the School of Hygiene and Public Health. In addition, it operates a Center for Occupational and Environmental Health on the grounds of the U.S. Public Health Service Hospital.

The Division does employ students in various capacities, in laboratory, field, and clinical settings. There are opportunities for students to be assigned to special programs and projects investigating occupational and environmental health matters including outbreaks of disease. There is a special role for medical students with an interest in occupational/environmental health. The salary is variable. Students are also welcome to work as volunteers.

Faculty members are available to speak on their areas of expertise. In addition, a series of case discussions is planned, which may be of use of medical students.

Sequence No. 12

Educational Resource Center
Dept. of Environmental Sciences and Engineering
208 Hill Building 426 A
UNIVERSITY OF NORTH CAROLINA SCHOOL OF PUBLIC HEALTH
Chapel Hill, NC 27514
(919) 966-1023

Contact Person: Dr. David A. Fraser, Director

This ERC is composed of faculty and staff from the School of Public Health and the Department of Medicine of the University of North Carolina as well as the Department of Community Medicine of Duke University and the Department of Industrial Engineering of North Carolina State University.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Students are employed for short periods throughout the year to make presentations on specific topics in the Continuing Education Program. Salaries are on the basis of honoraria for specific presentations. Students with knowledge in the areas of Physiology, Toxicology or clinical testing procedures are needed.

The Resource Center is eager to present speakers and/or programs for medical student audiences. These would include lectures and discussions in areas such as Industrial Toxicology, Chemical Carcinogenicity, Hearing Conservation, Pulmonary Function Testing, and much else.

Sequence No. 13

Educational Resource Center
Department of Environmental
UNIVERSITY OF WASHINGTON
Seattle, WA 98195
(206) 543-6991

NON-RESPONDER

Sequence No. 14

Educational Resource Center
Institute of Environmental Health
KETTERING LABORATORY
UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE
3223 Eden Avenue
Cincinnati, Ohio 45267
(513) 872-5701

Contact Person: Dr. Raymond R. Suskind

The Institute offers clerkships for medical students during the regular academic year as well as a small number of jobs in laboratory and/or field efforts during the summer.

Members of the teaching and research faculty conduct programs dealing with problems of metal intoxication, the health effects of fossil fuel processing and use, the synthesis and use of plastics, rubber, metal alloys, etc. Bibliographies of recent articles dealing with these topics are available upon request.

Sequence No. 15

Educational Resource Center
Occupational Health Program
HARVARD SCHOOL OF PUBLIC HEALTH
665 Huntington Ave.
Boston, MA 02115
(617) 732-1260

Contact Person: John Peters, MD.

The Occupational Health Program at HSPH hires students as needed to participate in various projects. Tasks involved include data collection and coding. The length of employment is generally about three

A Resource Guide for Health Science Students

months; the salary is \$4.50/hour. The main qualification is an interest in the project! Volunteers might be welcomed by individual faculty members to assist in their research.

Faculty members in the Program are available as speakers on their areas of expertise and on career options in the field. Reprints of published material are also available.

Sequence No. 16

Educational Resource Center

Upper Midwest Occupational Safety and Health

UNIVERSITY OF MINNESOTA SCHOOL OF PUBLIC HEALTH

1158 Mayo Memorial Building

420 Delaware St., S.E.

Minneapolis, MN 55455

Contact Person: Conrad P. Straub, Ph.D.

Professor, Rexford Singer

(612) 373-8080

The Upper Midwest ERC consists of a consortium of regional institutions: School of Public Health, University of Minnesota, Minneapolis; Department of Industrial and Technical Studies, University of Minnesota, Duluth; Department of Internal Medicine, St. Paul-Ramsey Medical Center, St. Paul; Mayo Graduate School of Medicine, Rochester; and Institute of Agricultural Medicine and Environmental Health, University of Iowa, Oakdale.

This ERC does hire students on an individually structured basis, with specific tasks dependent on the particular project. Students generally act as TA's or RA's, or perform literature reviews, at a salary of about \$5.60/hour.

Other than its organized courses, the ERC reports no speakers, programs, or literature suitable for student use.

Sequence No. 17

Educational Resource Center

The Arizona Center for Occupational Safety and Health

UNIVERSITY OF ARIZONA HEALTH SCIENCES CENTER

Tucson, Arizona 85724

Contact Persons: H. Abrams, M.D.; M. Gray, M.D.

ACOSH hires students for research and writing in the preparation of occupational medicine curriculum modules, and for participation in preceptorships with migrant workers and other occupational groups. Volunteers are also welcome to help with various ACOSH projects.

ACOSH faculty are available to teach on various aspects of occupational health, and the Center can provide teaching modules on a number of occupational health topics. Each module consists of a videotape program, audio-slide presentation, and text, with bibliography.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 18

Educational Resource Center

School of Public Health

UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER

2035 W. Taylor St.

Chicago, IL 60612

Contact Person: Shirley Conibear, M.D.

An externship or clinical elective in occupational medicine is offered by the Division of Occupational Medicine, Cook County Hospital (Rm. 1304 Meyer Hall, 720 S. Walcott St., Chicago, IL 60612). In addition, students with an interest in occupational health are hired during the summer (if funds are available) by the School of Public Health. Tasks include library research and data collection in studies; the salary is \$5.00/hour.

Speakers on various aspects of occupational health are available.

Sequence No. 19

Educational Resource Centers

Environmental Sciences Laboratory

MOUNT SINAI SCHOOL OF MEDICINE

10 East 102nd Street

New York, NY 10029

(212) 650-6173

Contact Person: Arthur L. Frank, M.D., Ph.D.

Harry Heimann, M.D.

The Environmental Sciences Laboratory is a division of Mount Sinai's Department of Community Medicine. This ERC also encompasses the following cooperating institutions: The Institute of Environmental Medicine, New York University; The Safety Center, New York University; Hunter College and City College, The City University of New York; and the College of Medicine and Dentistry of New Jersey.

Mount Sinai both accepts volunteers and offers student employment on various research projects. The salary varies, depending in part on experience. In addition, the program offers four-eight week electives in which students may pursue clinical, laboratory, academic, and/or field study.

The program has a large, diversified faculty with many members available for medical student-oriented lectures on a variety of topics.

Sequence No. 20

Educational Resource Center

Department of Community and Environmental Medicine

UNIVERSITY OF CALIFORNIA, IRVINE

Irvine, California 91717

(714) 833-6269

Contact Person: B. Dwight Culver, M.D.

NON-RESPONDER

Sequence No. 21

COSH GROUPS: AN OVERVIEW

COSH stands for "Committee/Coalition/Council on Occupational Safety and Health." COSH groups have been formed in cities and states across the U.S. by workers and health activists concerned about job safety and health. They are mostly funded by unions, membership dues, grants and foundations. The shared aims of these groups is to assist unions and workers to organize around safety and health, to provide them with technical information and skills; and to wage political campaigns around safety and health issues.

COSH groups have traditionally relied on the united efforts and cooperation of volunteer lay people and professionals including trade unionists, physicians, nurses, industrial hygienists, chemists, lawyers, educators, and students. COSH scientists have measured airborne carcinogen levels; COSH physicians have interpreted chest x-rays of asbestos workers, and checked blood levels of lead among lead smelters and their families; COSH groups have provided training and educational sessions for union locals, set up screening clinics, researched toxic substances and testified at government hearings.

At present, there are ten established COSH groups in the country, with others in the process of forming. All of them would be eager to have volunteer participation and help from medical students at any time during the year. Most of these organizations are fairly similar in terms of their stated aims and their overall design. However, their ability to provide stipends to students, utilize specific medical student skills, and other functional details vary; therefore, each of the COSH groups shall be briefly described below.

Sequence No. 22

TNCOSH (TENNESSEE COSH)

Center for Health Services

Station 17 — Vanderbilt Medical Center

Nashville, TN 37232

(615) 322-4773

Contact Person: Jamie Cohen

TNCOSH is involved in the full range of COSH activities.

A student internship is offered from early June through August in which students work with unions to help workers identify and solve hazards in the workplace. A strong emphasis is placed on helping union locals develop their own health and safety committee activities. Medical students, in addition, can specifically research chemicals, develop educational materials, and help put together screening clinics and health fairs. The internship offers a \$100/wk salary plus reimbursement for travel, duplicating, and phone calls. In general, students are sought who have good organizing skills and experience with workers or community organizations.

TNCOSH offers a brochure on their internship program. Personnel are also available to speak on TNCOSH activities and the internship program.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 23

WISCOSH (WISCONSIN COSH)

805 SO. 5th St.
Milwaukee, WI 53204
(414) 643-0928

WISCOSH is a relatively new COSH group. It maintains a library on health and safety issues, performs research, and conducts educational conferences for unions on health and safety, OSHA, and health and safety contract language.

Being new, WISCOSH cannot as yet offer funded projects for students. Volunteers are welcome to do research, prepare educational material, and do office work. Students with a pro-labor attitude are preferred.

WISCOSH is currently preparing to publish a newsletter. It can offer speakers on occupational health and safety topics for medical students.

Sequence No. 24

MARYLAND COSH

P.O. Box 3825
Baltimore, MD 21217
(301) 955-3689

Contact Person: Grace Ziem, M.D.

Maryland COSH is engaged in the full range of COSH activities in the Baltimore area.

Maryland COSH welcomes medical and public health students to pursue any of its activities. Projects usually consist of either 8–9 weeks of full-time work during the summer, or part-time work during the academic year. Academic credit from Johns Hopkins School of Hygiene and Public Health may be arranged by a student with the student's school. Maryland COSH is currently applying for a grant for student stipends which would provide a salary of around \$1000 for the summer and tuition if necessary.

Maryland COSH maintains a series of fact sheets. It also offers speakers suitable for medical students on topics such as specific occupational diseases, the role of the clinician in occupational health, etc.

Sequence No. 25

WNYCOSH – WESTERN NEW YORK COUNCIL ON OCCUPATIONAL SAFETY AND HEALTH

59 Niagara Square Station
Buffalo, NY 14201

Contact Person: Jeanne Relly, Corresponding Secy.

WNYCOSH operates in the Buffalo area. It is engaged in the full range of COSH activities; in addition, it monitors the local activities of OSHA, NIOSH, and the New York State Workers' Compensation Board.

WNYCOSH has not hired students in the past, although it is looking into future work-study arrangements with area universities. Volunteer students are accepted to prepare fact sheets in lay people's language, and deliver educational sessions at labor meetings.

A Resource Guide for Health Science Students

WNYCOSH holds regular meetings, including special interest conferences on topics such as lead poisoning or OSHA. WNYCOSH also is currently conducting a drive to change the New York Workers' Compensation Laws. Publications include a newsletter and lay person-oriented fact sheets.

Sequence No. 26

RICOSH

**371 Broadway
Providence, RI 02909
(401) 751-2015**

Contact Person: Dave Snapp

RICOSH is involved in the full range of COSH activities. Membership includes local unions, individual workers, health and legal professionals, and others.

Students have been hired to work at RICOSH on a work/study basis through an environmental internship program. Projects take place during the summer and begin with a period of basic training, followed by work with union locals, research, and writing. The salary available varies. Students with a previous background in occupational safety or health are preferred. Volunteers during the academic year are welcome as well. This usually requires an input of 5 to 10 hours per month.

RICOSH, in addition to its work with unions, offers a number of workshops given by its health/technical committee for interested health professionals. It also maintains a bimonthly publication "Rhode Island Health and Safety News," which includes stories on union health and safety activities, fact sheets, and other information.

Sequence No. 27

PHILAPOSH

**(Philadelphia Project on Occup. Safety and Health)
1321 Arch St. Rm. 201
Philadelphia, PA 19107**

PHILAPOSH is engaged in the full range of COSH activities in an area that has a high concentration of industries. It has a membership of 55 Delaware Valley union locals, individual workers, and many health and legal professionals.

PHILAPOSH has a summer internship program for students. There are no stipends currently, although work-study arrangements are available. In addition, the program has been used to fulfill academic credit. Both student volunteers and interns engage in health/technical education and research.

PHILAPOSH, in addition to its educational and technical assistance programs, strongly supports political activities such as the recent class action suit brought by the Health Research Group for the worker's "right to know."

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 28

NCOSH

(North Carolina Occup. Safety and Health Project)

P.O. Box 2514

Durham, NC 27705

Contact Person: Alan Weiner/David Austin

NCOSH is engaged in the full range of COSH activities. In addition to research and education, NCOSH also offers technical assistance in filing and following up complaints with OSHA, sponsorship of screening clinics, and political activities.

Volunteer students are welcome at NCOSH to do research on specific occupational health problems. Medical students, after attending a 2-hour training session, may also work in a one day occupational health screening clinic sponsored by NCOSH. These clinics are primarily used to screen for brown lung, and involve conducting pulmonary function tests, taking blood pressures, and taking work/medical histories. Salaries are not currently offered, although academic credit can be arranged.

NCOSH has developed a slide show entitled "We Pay With Our Lives" which is available for showing for a nominal fee. It also maintains a newsletter, a research report on asbestos workers and hazards in North Carolina, and speakers on general topics in occupational health with a special focus on North Carolina.

Sequence No. 29

NEW YORK COMMITTEE FOR OCCUPATIONAL SAFETY AND HEALTH (NYCOSH)

S. Beekman St., Room 628

New York, NY 10038

**Contact Person: Deborah Nagin (599-4592) or
David Michaels (920-4625)**

NYCOSH is a COSH group that serves the greater New York metropolitan area. At this time, it also does work in the Northern Industrial New Jersey region. Membership includes workers and safety and health activists.

NYCOSH has a flexible one to two month program in which interns —

- 1) investigate safety and health problems faced by specific groups of workers
- 2) design educational activities for those workers.

NYCOSH offers a \$100/wk stipend, and seeks students who support the role of unions in solving health and safety problems, especially students with some proficiency in Spanish. Volunteers are also welcome. Their responsibilities may include the above as well as providing technical assistance to unions, research, and education.

In addition to the technical support and educational and political activities for unions, NYCOSH sponsors general educational events throughout the New York area. It also maintains a host of publications and newsletters, including a series of fact sheets.

Sequence No. 30

NEW JERSEY COMMITTEE ON OCCUPATIONAL SAFETY AND HEALTH (NJCOSH)

80 Central Ave.
Clark, NJ 07066

NON-RESPONDER

Sequence No. 31

MASSCOSH

323 High St.
Holyoke, MA 01040
(413) 536-3736

Contact Person: Brad Brousseau

MASSCOSH has a membership of 15 union locals and approximately 200 individual members, most of whom are professionals. In addition to providing educational and technical assistance to union locals on health and safety, MASSCOSH maintains publications including a newsletter and 2 series of fact sheets.

MASSCOSH has not employed students; however, student volunteers have been welcome. Medical student responsibilities include general organizational work and preparation of educational concerning specific medical information.

In addition to fact sheets and a newsletter, MASSCOSH publishes a detailed handbook on workers' compensation that is extremely useful to medical personnel as well as workers.

Sequence No. 32

CACOSH

(Chicago Area Committee on
Occupational Safety and Health)
542 S. Dearborn No. 508
Chicago, IL 60605

NON-RESPONDER

Sequence No. 33

INDUSTRIAL UNION DEPARTMENT, AFL-CIO

815 16th St., N.W.
Washington, DC 20006

Contact Person: Sheldon W. Samuels, Director
Health, Safety, and Environment

The IUD is a central labor body serving six million workers in 58 member unions.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

The IUD employs four interns per year, each for a six-week period in its Washington office. Tasks vary based on the student's skills, and might include work in administrative, legislative, and field aspects of occupational health. Qualifications include training or experience in public health; salary is based on need.

The IUD can provide speakers on various aspects of occupational health from the worker's perspective. In addition, it maintains an extensive union mailing list.

Sequence No. 34

OIL, CHEMICAL AND ATOMIC WORKERS INTERNATIONAL UNION

P.O. Box 2812

Denver, CO 80201

(303) 893-0811

Contact Person: Anthony Mazzocchi, Director
Health and Safety Department

OCAW is a labor union representing 200,000 members in the United States and Canada who work in some of the most dangerous jobs—refineries, chemical plants, and nuclear facilities. The Union has played a prominent role in the field of occupational health and safety, and has an ongoing program which includes health and safety publications, investigations, training programs for members, and surveys of health hazards in specific industries. The Health and Safety Department, under Director Anthony Mazzocchi, consists of an Industrial Hygienist and an Occupational Health specialist. Five physicians work full time for the union under an OSHA New Directions training grant awarded to the Union. Also under the grant, Occupational Safety and Health Education Coordinators, after intensive training, travel through their districts to educate members about how to evaluate and approach health and safety problems on a local level.

For several years, OCAW has also offered internships in order to provide relevant occupational health experience for medical and other health students. The 4–12 week program places students in direct contact with a local union so that, in consultation with the International health and safety staff, they can systematically examine the health problems of a workplace, establish health education programs, and participate in developing strategies to change the work environment. Each student is under the direct supervision of one of the staff physicians. The internship experience provides educational opportunities in toxicology, epidemiology, industrial hygiene, community medicine, occupational health law, worker's compensation system, and, of course, the fundamental principles of occupational health from a worker's perspective.

Examples of student projects in the past include:

- 1) Performing health hazard evaluations in plants, analyzing the potential problem areas, making recommendations for changes in the workplace, medical testing of workers, and necessary further studies;
- 2) Evaluation of the physiological and psychological aspects of shift work, exploration of alternative work schedules, and preparation of a pamphlet on this issue;
- 3) Assistance to locals in structuring an adequate medical surveillance program based on their particular work exposures;
- 4) Investigation of the long-term effects on workers and their families of a major oil refinery explosion.

Projects are tailored to fit the interests of individual students. The program is open to all students of the health professions, to housestaff, and to students in related fields such as labor relations. Unfortunately,

A Resource Guide for Health Science Students

the Union cannot provide financial assistance; therefore, travel and living expenses must be arranged by the students.

The OCAW offers both speakers and publications on occupational health and safety. Its health and safety staff, its regional physicians, and its health and safety director, Anthony Mazzocchi, are available to speak on many aspects of job health and safety. The Union's Educational Materials list includes booklets, fact sheets, and a newsletter on specific hazards, industries, and groups of workers, as well as posters, buttons, bumper stickers, and the Asbestos Slide Show. These resources can all be described fully by health and safety staff members at the Union's Denver office.

Sequence No. 35

UNITED AUTOMOBILE WORKERS

**8000 E. Jefferson
Detroit, MI 48214**

Contact Person: Michael Silverstein, M.D.

The UAW represents 1.5 million workers in the automobile, aerospace, and agricultural implement industries. It has an active health and safety program involved in health hazard evaluations, educational programs, collective bargaining, and legislative work. The staff includes three industrial hygienists, one physician, and two safety engineers as well as several hundred full time health and safety representatives in local unions.

The UAW offers no student placements at this time. It can provide speakers on occupational health topics as time permits, and it publishes a Health and Safety Newsletter and a variety of manuals and pamphlets.

Sequence No. 36

AMALGAMATED CLOTHING AND TEXTILE WORKERS UNION, AFL-CIO

**770 Broadway
New York, NY 10003**

**Contact Person: Eric Frumin, Assistant Director
Occupational Safety and Health**

ACTWU is a trade union of 500,000 clothing and textile workers in the United States and Canada.

The union has a three-month summer internship program in which interns do occupational safety and health research. The salary is \$200.00/week plus travel expenses. Qualifications include an interest in the field, and a familiarity with labor organization. Although they have not taken on student volunteers in the past, they are open to student-initiated volunteer efforts.

ACTWU has a professional health and safety staff and a slide show which may be available for student programs. Published ACTWU educational materials include:

- a) local union safety and health manual
- b) model safety and health clauses for ACTWU labor agreements
- c) outline of model clause
- d) checklist on hazard correction

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

- e) fact sheet on toxic chemical control in the workplace
- f) fact sheet on how to use OSHA Form 200
- g) Films: The Shop Accident; Health Hazards in the Workplace.

Sequence No. 37

UNITED RUBBER, CORK, LINOLEUM AND PLASTIC WORKERS OF AMERICA, AFL-CIO
87 South High Street
Akron, Ohio 44308

Contact Persons: Louis Beliczky; Daniel Brustein

The URW represents about 180,000 members in basic rubber, plastics and resin production, and rubber, cork, linoleum and plastics fabrication. The union's Department of Industrial Hygiene provides technical assistance to local unions, develops recommendations for contract language, participates in government standard-setting procedures, oversees epidemiological and environmental studies in rubber plants conducted by Harvard and UNC, and provides health and safety training to union officials and members.

The URW has no student placements at present, but might offer volunteer opportunities in the future.

The URW can provide speakers on health hazards in the rubber and plastics industries.

Sequence No. 38

UNITED RUBBER WORKERS LOCAL 26
152-4 North Mechanic Street
Cumberland, MD
(301) 722-8370

Contact Person: B. J. Carter, President
D. Broadwater, Vice-President
P. Heinrich, Safety Chairman

U.R.W. L.U. 26 is an 1800-member local at a Kelly Springfield Tire Plant in Cumberland, Md. The local is very active in health and safety organizing around a number of hazards its members face.

L.U. 26 has worked with medical students in the past, and is anxious to continue doing so. The student's role is individually structured, based on consultation with union members. The union can pay travel expenses.

Sequence No. 39

INTERNATIONAL CHEMICAL WORKERS UNION
1655 W. Market St.
Akron, Ohio 44313

NON-RESPONDER

SEQUENCE NO. 40

Sequence No. 40

UNITED ELECTRICAL, RADIO, AND MACHINE WORKERS OF AMERICA (UE)

11 E. 51st St.
New York, NY 10022

NON-RESPONDER

Sequence No. 41

**INTERNATIONAL UNION OF ELECTRICAL RADIO AND MACHINE WORKERS
(AFL-CIO) (IUE)**

1126 16th St. NW
Washington, DC 20036

NON-RESPONDER

Sequence No. 42

Department of Occupational Health

UNITED MINE WORKERS OF AMERICA

900 15th St. NW
Washington, DC 20005

NON-RESPONDER

Sequence No. 43

UNITED STEELWORKERS OF AMERICA

Five Gateway Center
Pittsburgh, PA 15222

NON-RESPONDER

Sequence No. 44

UNITED PAPERWORKERS

163-03 Horace Harding Expressway
Flushing, NY 11365

NON-RESPONDER

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 45

UTILITY WORKERS UNION OF AMERICA

815 16th St. NW, Suite 605

Washington, DC 20006

NON-RESPONDER

Sequence No. 46

INTERNATIONAL ASSOCIATION OF MACHINISTS AND AEROSPACE WORKERS

1300 Connecticut Avenue, NW

Washington, DC 20036

NON-RESPONDER

Sequence No. 47

UNITED BROTHERHOOD OF CARPENTERS AND JOINERS

101 Constitution Ave. NW

Washington, DC 20001

NON-RESPONDER

Sequence No. 48

AMALGAMATED MEAT CUTTERS

2800 NO. Sheridan Rd.

Chicago, IL 60657

NON-RESPONDER

Sequence No. 49

GLASS WORKERS UNION OF NORTH AMERICA

1440 S. Byrne Rd.

Toledo, Ohio 73614

NON-RESPONDER

Sequence No. 50

ALUMINUM WORKERS INTERNATIONAL UNION

818 Olive St., Suite 338
St. Louis, MO 63101

NON-RESPONDER

Sequence No. 51

INTERNATIONAL BROTHERHOOD OF TEAMSTERS

25 Louisiana Ave., NW
Washington, DC 20001

NON-RESPONDER

Sequence No. 52

LABOR OCCUPATIONAL HEALTH PROGRAM

University of California
2521 Channing Way
Berkeley, CA 94720
(415) 642-5507

NON-RESPONDER

Sequence No. 53

NEW YORK STATE SCHOOL OF INDUSTRIAL AND LABOR RELATIONS

Cornell University
3 E. 43rd St.
New York, NY 10017

NON-RESPONDER

Sequence No. 54

URBAN ENVIRONMENT CONFERENCE

1302 18th St., NW
Suite 301
Washington, DC 20036

NON-RESPONDER

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 55

ECOLOGY CENTER OF LOUISIANA, INC.

P.O. Box 19064

New Orleans, LA 70179

Contact Person: Betty Hunter

The center is concerned with local environmental issues such as water quality, renewable energy and hazardous wastes.

Students are hired throughout the year. The center pays \$1/hr and in the past, the students have obtained an additional \$2/hr from their schools' work study programs. Volunteers are also welcome.

An interest in environmental issues, ability to take initiative and to work well without constant supervision are prerequisites. Students will be involved in newsletter publication, conference organizing. Also students will be encouraged to write issue papers on local health/environmental problems.

The center has a speakers bureau on environmental issues. A newsletter, proceedings of conferences organized by the center and a film on the Atchafalaya Swamp are also available from the center.

Sequence No. 56

LABOR SAFETY AND HEALTH INSTITUTE

381 Park Avenue South

New York, NY 10016

NON-RESPONDER

Sequence No. 57

THE OHIO STATE UNIVERSITY LABOR EDUCATION AND RESEARCH SERVICE

Occupational Safety and Health Project

1810 College Rd.

Columbus, Ohio 43210

Contact Person: Professor R. M. Montgomery

The Ohio State University Labor Education and Research Service Occupational Safety and Health Project is a state supported continuing education program which is involved in the following:

- 1) Developing teaching materials for occupational safety and health training.
- 2) Conducting training in occupational safety and health on a continuing education basis for employees and union representatives.
- 3) Providing technical assistance to workers and union representatives.

The Occupational Safety and Health Project does not employ students. Volunteers could help with requests for technical assistance from labor unions.

Sequence No. 58

SIERRA CLUB

530 Bush St.

San Francisco, CA 94108

Contact Person: Rosie K. Goldenberg
Coordinator of Volunteer Services

The Sierra Club is a private, non-profit organization dedicated to the conservation of natural resources.

Although it has no funds to pay students, the Sierra Club welcomes volunteers who can contribute at least 20 hours/week for three months. Such students can become involved in writing, research and organizing on conservation issues.

The Sierra Club can provide speakers on the Clean Air Act. It has a literature packet on pollution and publishes Samuel Epstein's *The Politics of Cancer*.

Sequence 59

SIERRA CLUB — NEW JERSEY CHAPTER

360 Nassau Street

Princeton, NJ 08540

(609) 924-3141

Contact Person: Diane Graves
Conservation Chairman

This local branch of The Sierra Club is deeply involved in environmental and occupational cancer problems and issues.

This all volunteer organization could use help in office and library work, lobbying and research.

Sequence No. 60

UNIVERSITY OF WISCONSIN EXTENSION — SCHOOL FOR WORKERS

701 S. Park St.

Madison, WI 53706

(608) 262-2111

Contact Person: George Hagglund/Sherri Knutson

The School for Workers is a workers' education unit organized in 1925 that provides workers with opportunities for continuing education in subjects related to their activities as union members, officers, and staff representatives. The school has extensive safety and health training programs which are funded until 1983 by the U.S. Dept. of Labor — OSHA. Much of the activity of the school is in running non-credit classes and institutes in Madison, Milwaukee, or in workers' home towns. Examples of conference subjects are: The Occupational Safety and Health Act, The Role of Women in the Labor Movement, Steward Training and Grievance Handling, and Labor and the Environment.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

The School for Workers employs students both as part of a structured summer internship and also on an individual basis. Students assist in research, clerical work, and various tasks related to running programs and institutes on campus. The salary is \$3.90–\$7.00 per hour or approximately \$100 per week. The school generally looks for someone with a background in industrial relations, but is interested in medical students with an interest in occupational medicine and epidemiology and someone who is strong in physiology to help with job stress research. The School for Workers would welcome student-initiated volunteer efforts if the student works within ongoing projects under the supervision of faculty.

The School for Workers has a series of about 20 publications on worker health and safety. Many of the pamphlets are explanations of worker rights under OSHA; others deal with union and administrative procedures to abate health hazards in the workplace.

Sequence No. 61

WESTERN INSTITUTE FOR OCCUPATIONAL/ENVIRONMENTAL SCIENCES, INC.

2001 Dwight Way
Berkeley, CA 94704

Contact Person: Phillip L. Polakoff, MD

Research and Education in Various Occupational Areas

The Western Institute for Occupational/Environmental Sciences, Inc. takes volunteers and employs students as research associates and survey technicians on a "Project by Project" basis. The salary depends on the student's qualifications. The time investment is flexible.

1. The Western Institute for Occupational/Environmental Sciences, Inc. can provide speakers suitable for medical student audiences.
2. The WIO/ES publishes literature on subjects in occupational and environmental health.

Sequence No. 62

HUDSON RIVER SLOOP CLEARWATER, INC.

112 Market St.
Poughkeepsie, NY 12601

Contact Person: Mary Lou Lamping, Executive Assistant

Clearwater is a non-profit membership-supported organization dedicated to the restoration and preservation of the Hudson River. It is organized around the Clearwater, a Hudson River sloop, and an on-land educational and environmental action program. It has become involved with such areas as the Hudson Flood Skimming Project, PCB's, and nuclear construction.

Clearwater has volunteer and paid positions, crewing and teaching aboard the boat during its April-through-November sailing season, and doing research throughout the year. Medical skills could be useful in research, teaching about health effects of pollutants, and first aid training.

The Clearwater Navigator, a monthly publication, offers regular and informed reporting on major Hudson River environmental issues.

A Resource Guide for Health Science Students

Sequence No. 63

NEW MEXICO OCCUPATIONAL HEALTH PROGRAM

Family Practice/Psych. Bldg.

UNM School of Medicine

Albuquerque, NM 87131

(505) 277-3253

Contact Person: Lawrence D. Weiss, Ph.D.

The New Mexico Occupational Health Program is within the Division of Community Medicine at the University of New Mexico. Since its beginning in 1978, the NMOHP has engaged in the following activities:

1. Development of library resource materials for the UNM
2. Liaison between UNM and Arizona Center for Occupational Safety and Health (ACOSH)
3. Development at UNM of family practice residency training program in occupational health and MPH with concentration in occupational health
4. Development of an occupational health clinic, a rural industrial screening clinic for workers in high risk occupations, and a Navajo occupational health project
5. Publication of "Industrial Medicine Newsletter"

The NMOHP is anxious to find students (not limited to medical students) to help in all areas of its activities. The students' roles depend on time, availability, and interest. Right now the only salary is on a work-study basis (between \$3 and \$4 per hour); however, NMOHP welcomes volunteers.

1. NMOHP puts out a quarterly "Industrial Medicine Newsletter" and research papers on various aspects of occupational health in the Southwest.
2. Lawrence Weiss, the Program Coordinator, is available as a speaker on occupational health.

Sequence No. 64

HEALTH POLICY ADVISORY CENTER

17 Murray St.

New York, NY 10007

Health/PAC is a public interest organization in the area of health policy that, through publication, research and technical assistance, serves those trying to reform and restructure the health care delivery system. To the extent that its resources allow, Health/PAC provides speakers and serves as a center for the formation of networks of concerned people in different professional and geographic areas.

Health/PAC has had to discontinue its internship program because of lack of funds. It would welcome student volunteers who are able to work independently to research and write articles for the *Health/PAC Bulletin*, but it does not have supervisory staff to take on student volunteers who are not self-starters.

The bimonthly *Health/PAC Bulletin* often publishes articles on occupational safety and health. For example, a recent issue contained a study of occupational health physicians in New Jersey.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 65

PUBLIC CITIZEN HEALTH RESEARCH GROUP

2000 P. St., N.W., Suite 708

Washington, DC 20036

Contact Person: Laurie Pyne, Office Manager

HRG is one of several groups funded through private contributions to Ralph Nader's Public Citizen, Inc. It works for consumers in the areas of occupational safety and health, food and drug safety, health care delivery and medical device safety. It functions by getting information on health to the public and by monitoring federal regulatory agencies.

HRG hires student interns, generally for ten weeks during the summer, at about \$80/week. It seeks students with excellent science backgrounds, very good writing skills, and a strong interest in public interest consumer advocacy work. Volunteers are also welcome.

HRG has an extensive list of publications on occupational and environmental health issues, which may be obtained by writing to its office. Topics range from specific physical and chemical hazards to legal analysis, from women's occupational health to carcinogen control. In addition, speakers are available on some subjects, as time permits.

Sequence No. 66

INSTITUTE FOR LABOR EDUCATION AND RESEARCH

853 Broadway, Room 2007

New York, NY 10003

(212) 674-3322

Contact Person: Michael Merrill

The Institute for Labor Education and Research is a group of labor educators dedicated to bringing innovative education to working people from the workers' point of view. It is a non-profit organization funded by small foundations and government grants.

Although it has no funds to pay students, the Institute would welcome student volunteers to help in projects around occupational health.

The Institute has a 26-minute slide show, "Your Job or Your Life," which describes "how workers face corporate blackmail threats on health and safety problems and how they fight back." Medical students might find it useful in understanding the social and political roots of occupational health problems.

A Resource Guide for Health Science Students

Sequence No. 67

NATURAL RESOURCES DEFENSE COUNCIL

917 15th Street, N.W.	122 East 42nd Street	2345 Yale Street
Washington, DC 20005	New York, NY 10017	Palo Alto, CA 94306
(202) 737-5000	(212) 949-0049	(415) 327-1080

Contact Person: Louis Slesin, Ph.D.

Concerning Internships: Dr. A. Karim Ahmed, Senior Staff Scientist
(both at the NRDC's New York Office)

NRDC is a non-profit membership organization, working to protect America's endangered natural resources and to improve the quality of the human environment. Its professional staff includes biochemists, nuclear scientists, public health specialists, transportation, energy, land use, and economic planners, who work with 23 attorneys. NRDC's projects reflect this multidisciplinary approach; its major interests are land use, including public lands, coastal protection, air and water pollution, nuclear safety and energy production, transportation, environmental carcinogens, and protection of wilderness and wildlife. The projects combine monitoring and working with government agencies, scientific research, and citizen education in a program of positive action. NRDC has 45,000 members nationwide.

NRDC has a regular summer internship program, in both legal and scientific areas, in all three of its offices. Science interns research current scientific data, write in-house reports, prepare critiques, and participate in public hearings. The desired qualifications include good grades, high motivation, and a strong interest in environmental and health issues. The salary is about \$210/week.

NRDC does not provide speakers, but an extensive publications list offers materials on air and water quality, nuclear energy, toxic substances and health, and other subjects. In addition, the *NRDC Newsletter* is a quarterly journal supplying information on a range of environmental issues.

Sequence No. 68

OCCUPATIONAL HEALTH MEDIA PROJECT

2067 Broadway No. 52
New York, NY 10023

NON-RESPONDER

Sequence No. 69

PUBLIC RESOURCE CENTER

1747 Connecticut Ave. NW
Washington, DC 20009

NON-RESPONDER

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 70

UNION OF CONCERNED SCIENTISTS
1208 Massachusetts Ave.
Cambridge, MA 02138

NON-RESPONDER

Sequence No. 71

NATIONAL URBAN LEAGUE
500 E. 62nd St.
New York, NY 10021

NON-RESPONDER

Sequence No. 72

RACHEL CARSON TRUST FOR THE LIVING ENVIRONMENT
8940 Jones Mill Rd.
Washington, DC 20015

NON-RESPONDER

Sequence No. 73

SCIENTISTS INSTITUTE FOR PUBLIC INFORMATION
355 Lexington Ave.
New York, NY 10017

NON-RESPONDER

Sequence No. 74

SOCIETY FOR OCCUPATIONAL AND ENVIRONMENTAL HEALTH
1341 G Street, N.W.
Washington, DC 20005
(202) 347-4550

Contact Person: Deborah K. Watkins
Executive Director

The SOEH is comprised of 600 lay and professional members with backgrounds in medicine, epidemiology, economics, health administration and law. Primarily through holding open forums for the exchange of information and ideas, SOEH strives to focus public attention on the social, scientific and regulatory problems involved in improving the quality of both working and living places.

A Resource Guide for Health Science Students

Although SOEH does not have paid student jobs, it welcomes volunteers to help with newsletter editing, research, answering requests, and office work.

SOEH sponsors about three conferences and workshops a year, which students may attend. Recent conferences dealt with such topics as:

- Pesticides and Human Health
- Health Hazards in the Arts and Crafts
- Implications of the OSHA Proposal on Carcinogen Regulation
- Women and the Workplace.

A complete listing of past conferences, and Proceedings of some, are available from the SOEH.

Sequence No. 75

WOMEN'S OCCUPATIONAL HEALTH RESOURCE CENTER

320 East 43rd St.

New York, NY 10017

Contact Persons: Deborah Ensign, Associate Director

Jeanne Stellman, Ph.D., Executive Director

WOHRC is a national, non-profit organization committed to the occupational safety and health of women workers. It provides technical assistance to unions, worker groups, women's and community organizations; conducts training programs; makes presentations; and develops and publishes materials (see below).

WOHRC hires student interns to work on various research projects. Specific tasks and salary vary with the project. Volunteers are also welcome.

WOHRC provides speakers on the importance of occupational medicine and on women's occupational health. It also publishes a Technical Bulletin and Newsletter for a general audience.

Sequence No. 76

SOLAR LOBBY

1028 Connecticut Avenue NW

Washington, DC 20036

NON-RESPONDER

Sequence No. 77

CENTER FOR THE BIOLOGY OF NATURAL SYSTEMS

Campus Box 1126

Washington University

St. Louis, MO 63130

The Center does interdisciplinary research on environmental carcinogens, alternative energy systems, and analysis of the U.S. economy.

No student employment or volunteer opportunities or other educational resources were reported.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 78

NATIONAL CONSUMER LAW CENTER
11 Beacon St.
Boston, MA 02108

NON-RESPONDER

Sequence No. 79

SANE, COMMITTEE FOR A SANE NUCLEAR POLICY
514 C St., NE
Washington, DC 20002

Contact Person: David Cartright

SANE is a nationwide organization of 17,000 members. The organization works in both the educational and the political arena to promote peace and disarmament. They are currently involved in documenting the medical hazards posed by weapons testing and development.

SANE has non-paying, semester and summer-long internships open to students who are interested in assisting on one of their projects. Qualifications include interest or experience in peace and disarmament issues. Medical students would be of particular help in investigating the medical consequences of exposure to nuclear radiation.

SANE is in the process of producing a pamphlet on the medical consequences of low level radiation exposure.

Sequence No. 80

CALIFORNIA PUBLIC POLICY CENTER
304 S. Broadway
Los Angeles, CA 90013

NON-RESPONDER

Sequence No. 81

NUCLEAR INFORMATION AND RESOURCE SERVICE
1536 16th St., N.W.
Washington, DC 20036
(202) 483-0045

Contact Person: Betsy Taylor (Concerning Speakers)

The Nuclear Information and Resource Service is a clearinghouse of information on energy and the anti-nuclear movement made up of 6 staff members and 3 interns.

A Resource Guide for Health Science Students

Volunteers are welcomed; if funding becomes available students with an energy oriented background will probably be hired. There is no special role for medical students.

Betsy Taylor at the NI&RS can find speakers to discuss health hazards of nuclear energy.

Sequence No. 82

CITIZENS FOR A BETTER ENVIRONMENT

59 East Van Buren, Suite 2610
Chicago, IL 60605

NON-RESPONDER

Sequence No. 83

SCIENCE FOR THE PEOPLE

897 Main Street
Cambridge, MA 02139
(617) 547-0370

SFTP is an organization working to build a science and technology responsive to people's needs. At present, SFTP is a loose federation of about 20 chapters in cities across the U.S. and Canada. SFTP has organized workshops and study groups on nutrition, nuclear power, genetic engineering and sociobiology. They have organized two trips to study science and technology in China. Finally, their bimonthly publication, *Science for the People*, furthers their educational work.

SFTP would welcome volunteers to help with clerical, production and layout work. Also, they would like to start a study group on health care and politics.

In addition to their bimonthly magazine, SFTP has published two books: *China: Science Walks on Two Legs* and *Biology as a Social Weapon*.

The magazine has occasional articles on occupational safety and health.

Sequence No. 84

AMERICAN OCCUPATIONAL MEDICAL ASSOCIATION

150 N. Wacker Drive
Chicago, IL 60606
(312) 782-2166

Contact Person: Don Hooper, Ph.D., Director of Education

The American Occupational Medical Association is the Nation's largest society of physicians in industry, government, and academia. The objectives of AOMA's programs are to offer continuing medical education for occupational physicians, to ensure high ethical standards by practitioners in the field, and to promote widespread understanding of the value of quality medical care for workers.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

The AOMA does not employ students, but would welcome student-initiated volunteer efforts related to development of CME activities (approx. 10 hrs/wk.)

1. Associate membership in AOMA is available for medical students, interns, and residents.
2. The *Journal of Occupational Medicine*, a monthly magazine, is sent to members.
3. The "AOMA Report" is a newsletter available to members providing information on actions taken by federal regulatory agencies on occupational health matters.
4. The "AOMA Membership Directory" is provided to each member.
5. A publications list is available. Most of the publications are reprints from JOM.
6. An employment referral service is available for physicians interested in full-time positions in occupational medicine.
7. National and regional conferences are scheduled.
8. A research and education fund is being developed with provision of financial assistance to deserving students of occupational medicine as one of its goals.
9. The AOMA can provide contacts with full-time occupational medicine professionals and possible speakers through members in the field.

Sequence No. 85

AMERICAN ACADEMY OF OCCUPATIONAL MEDICINE
150 N. Wacker Drive
Chicago, IL 60606

NON-RESPONDER

Sequence No. 86

INDUSTRIAL HEALTH FOUNDATION, INC.
5231 Centre Ave.
Pittsburgh, PA 15232

Contact Person: None named

The IHF reports no employment or volunteer opportunities or educational resources for students.

Sequence No. 87

COUNCIL ON OCCUPATIONAL RESPIRATORY DISEASE
150 No. Wacker Drive
Suite 2240
Chicago, IL 60606

NON-RESPONDER

Sequence No. 88

MOBILIZATION FOR SURVIVAL

3601 Locust Walk
Philadelphia, PA 19104
(215) 386-4875

Mobilization for Survival works against nuclear proliferation, both in power generation and in weapons production.

Although it has no money for salaries, "Mobe" welcomes volunteers to help with research, publicity, and office work.

Mobe has an extensive list of articles and books on nuclear proliferation, and publishes a directory of resources in the area which includes organizations and speakers.

Sequence No. 89

CRITICAL MASS ENERGY PROJECT

Box 1538
Washington, DC 20013

NON-RESPONDER

Sequence No. 90

ENVIRONMENTAL COALITION ON NUCLEAR POLLUTION

433 Orlando Ave.
State College, PA 16801

NON-RESPONDER

Sequence No. 91

INSTITUTE FOR POLICY STUDIES

1901 Q Street N.W.
Washington, DC 20009

NON-RESPONDER

Sequence No. 92

COMMITTEE OF ATOM BOMB SURVIVORS

1109 Shell Gate Place
Alameda, CA 94501

NON-RESPONDER

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 93

AMERICAN LUNG ASSOCIATION

1740 Broadway

New York, NY 10019

(212) 245-8000 Ext. 473

Contact Person: Frances R. Ogasawara

The ALA is a national voluntary health agency concerned with the prevention and control of lung disease. The emphasis of the ALA is on education.

Although the ALA has no formal program of student internships or volunteers on a national level, the local and state lung associations frequently have places for volunteers. Some of the ongoing projects include:

1. Physician Seminars on Health Effects of Air Pollution to be organized as 1 day seminars at major medical meetings.
2. Workshops on Clean Air Legislation.
3. A collaborative smoking cessation project which involves researching new approaches to self-help and clinic smoking cessation.
4. Attempts to teach K-3rd grades about lung health via a "Primary Grades Health Curriculum Project."

A great many booklets and films are available from the ALA. A small sampling includes:

1. *Occupational Lung Diseases: An Introduction*
2. *Enemies in the Dust*
3. "Facts" — a series of leaflets on specific occupational hazards.
4. *ALA Bulletin* (periodical) — articles on air pollution, occupational health, and smoking.
5. "Health Effects of Air Pollution."

Films and Spanish language pamphlets are also available. A complete literature list is available at no charge.

Sequence No. 94

AMERICAN PUBLIC HEALTH ASSOCIATION

1015 18th St. NW

Washington, DC 20036

NON-RESPONDER

A Resource Guide for Health Science Students

Sequence No. 95

CENTER FOR OCCUPATIONAL HAZARDS, INC.

5 Beekman Street
New York, NY 10038
(212) 227-6220

Contact Person: Michael McCann, Ph.D., President

The Center for Occupational Hazards is a clearinghouse for information and research on health hazards of arts and crafts materials.

Although COH has no funds to pay students, volunteers would be welcome to help with research and writing.

COH publishes the *Art Hazard Newsletter* ten times a year (subscription: \$10.00). Its publications list includes pamphlets, articles, and data sheets on hazards of specific crafts and materials, and an extensive bibliography of references in the field. In addition, COH can provide speakers on art hazards and will visit studios and art schools to evaluate hazards. Its library in New York is available for the use of artists, physicians, and scientists.

Sequence No. 96

CONSERVATION FOUNDATION

1717 Massachusetts Ave. NW
Washington, DC 20036

NON-RESPONDER

Sequence No. 97

ENVIRONMENTAL ACTION

1346 Connecticut Avenue, N.W.
Suite 731
Washington, DC 20036

Contact Person: Lou Ann Collins

Environmental Action is a private, non-profit lobbying group, currently lobbying for the Solar Bank Bill, Deposit Legislation, and Toxic Waste and Clean Air Regulations.

EA has an unpaid internship program, year-round, lasting two to three months at a time. Interns help staff members with specific projects. In addition, part-time volunteers are welcome to help out in the office.

EA publishes a monthly magazine; subscription costs \$15.00/year.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 98

ENVIRONMENTAL DEFENSE FUND

Toxic Chemicals Program
1525 18th St. NW
Washington, DC 20036
(202) 833-1484

Contact Person: Joseph H. Highland, Ph.D.

The EDF is a public interest group seeking to bring the legal system to bear on environmental problems. The broad goal of the Toxic Chemicals Program of the Environmental Defense Fund is to eliminate or minimize human exposure, especially involuntary exposure, to carcinogens and other toxic chemicals found in air, water, food, and consumer products. EDF may undertake direct discussions with manufacturers, consumers, and regulatory agencies, take part in federal rule-making procedures, or, when necessary, file administrative petitions or lawsuits. In 1978 the Toxic Chemicals Program worked on the enforcement of the 1977 Clean Air Act Amendments, removing asbestos in schools, banning pesticides which present carcinogenic threats to humans, regulation of disposal of toxic wastes, regulations to remove carcinogenic organic chemicals from drinking water.

The Toxic Chemicals Program hires students as part of a structured internship throughout the year, mostly during the summer, to work on general health data evaluations and public policy decision research. The Toxic Chemicals Program looks for students with very good biology backgrounds, usually graduate students, but occasionally well qualified undergraduates. Some of the students work as volunteers; the highest salary is \$150 per week.

1. The professional staff of the Toxic Chemicals Program consists of scientists and lawyers that could speak to medical student audiences.
2. The EDF staff has published *Malignant Neglect* (Knopf; 1979), a book for the lay reader explaining various aspects of cancer and suggesting ways of limiting exposure to environmental carcinogens.

Sequence No. 99

ENVIRONMENTAL POLICY INSTITUTE

317 Pennsylvania Ave., S.E.
Washington, DC 20003
(202) 544-8200

Contact Person: none provided

EPI is a non-profit, private, public interest research and information organization, supported by private contributions and grants. It focuses on energy and natural resource public policy issues, specifically on the importance of stronger standards to protect the public and nuclear workers from unnecessary radiation. EPI's Radiation Health Project is organized to promote medical research into, and broaden public understanding of, the sources and effects of low level ionizing radiation, and to provide policy alternatives for federal and state radiation programs.

Although it has no funds to pay students, EPI would welcome volunteers to do research, answer letters, attend hearings, and help with office work. Health science students would be especially useful in the Radiation Health Project, which deals with occupational and public health issues.

EPI does not provide publications or speakers.

Sequence No. 100

CENTER FOR SCIENCE IN THE PUBLIC INTEREST

1755 S St. NW
Washington DC 20009

Contact Person: Letilla Brewster

CSPI is a nonprofit organization which seeks to provide the public with reliable and understandable information about food, the food industry, and the government regulation of food.

CSPI has a few internships open to students throughout the year. The duration of the internship and the salary offered are negotiable. Interns do research and clerical work. Qualifications include good writing skills and the capacity to do independent work. The Center also takes on student volunteers and would welcome appropriate student-initiated volunteer efforts.

CSPI publishes various materials on nutrition and the politics of federal regulation of food safety and advertising.

Sequence No. 101

ENVIRONMENTALISTS FOR FULL EMPLOYMENT

1101 Vermont Ave. NW No. 305
Washington, DC 20005

NON-RESPONDER

Sequence No. 102

FRIENDS OF THE EARTH

124 Spear St.
San Francisco, CA 94105

Contact Person: Enid Goldman, Candy Rupp

Friends of the Earth is an environmental organization with a membership of 23,000 nationally and sister organizations in 20 countries.

Friends of the Earth does not employ students and most likely will not be employing students in the future. It does welcome student volunteers to do research and writing, to develop policy statement proposals and recommendations and to disseminate information. Medical students might be especially useful to work on such issues as the effects of recombinant DNA, pesticides, radiation, and antibiotics and DGS in animal feed on public health, to encourage citizen participation in determining national and local health policies, and to work on occupational health and safety. Volunteer work would probably result in publishable material.

Friends of the Earth could provide programs or discussions on the following subjects:

1. Environmental Perspective on Recombinant DNA research in both the public and private sector
2. The Need for Involving the Public in Determining Health-Related Policies

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

3. The Environmentalist Role in Protecting the Public Health

A student membership costs \$12 and provides a subscription to "Not Man Apart," its environmental newspaper and various offers for Friends of the Earth publications.

Sequence No. 103

NATIONAL CENTER FOR APPROPRIATE TECHNOLOGY

P.O. Box 3838
Butte, MT 59701
(406) 494-4572

Contact Person: Thomas H. Pelletier

The National Center for Appropriate Technology, an independent, non-profit corporation, is funded by the U.S. Community Services Administration (CSA) to develop and apply appropriate technologies to specific needs of low-income people, and to promote locally based programs that develop individual and community self-reliance. The National Center in Butte, Montana has technical research task groups (renewable energy, building technology, and agriculture, biofuels and recycling) provides financial assistance (averaging \$5,000—\$10,000) to promising appropriate technology projects in local communities, and makes available information and publications related to appropriate technology. In the area of health care de-centralized, labor intensive, low-cost medical services which are protective of human health and ecologically sound are considered to employ appropriate technologies.

The NCAT employs students in its projects. The salaries vary with the job, experience, and available funds. The time of employment varies with the job situation. There is no special role for medical students at this time. Health care is among the problems NCAT addresses, though its list of projects and publications does not seem to reflect much more in this area. A student initiated project addressing the problems of appropriate technology in health care is within NCAT's guidelines.

A free publications list is available.

Sequence No. 104

NATIONAL ENERGY INFORMATION CENTER

Federal Building
12th St. & Pennsylvania Ave. NW
Washington, DC 20461

NON-RESPONDER

Sequence No. 105

TOTAL ENVIRONMENTAL ACTION

Church Hill
Harrisville, NY 03450

NON-RESPONDER

Sequence No. 106

WIND ENERGY SOCIETY OF AMERICA
1700 E. Walnut St.
Pasadena, CA 91106

NON-RESPONDER

Sequence No. 107

WOOD ENERGY INSTITUTE
Box 1, Fiddlers Green
Waitsfield, UT 05673

NON-RESPONDER

Sequence No. 108

NATIONAL SOLAR HEATING AND COOLING INFORMATION CENTER
P.O. Box 1607
Rockville, MD 20850

NON-RESPONDER

Sequence No. 109

ACTION ON SMOKING AND HEALTH
2000 H Street NW
Washington, DC 20006

Contact Person: A. Winnings

ASH is an organization which works through the legal system to bring about changes in the regulations governing smoking in public places. ASH also provides educational services and distributes a bi-monthly newsletter which reports on all aspects of the problem of smoking and health.

Although ASH has not worked with medical students in the past it is possible that in the future they may be willing to do so.

ASH has compiled an extensive annotated bibliography which covers the literature on the legal, political and sociological aspects of the cigarette industry as well as the effects of cigarette smoke on health. This bibliography and selected reprints are available upon request.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 110

CONSUMERS UNION
265 Washington St.
Mt. Vernon, NY 10550

NON-RESPONDER

Sequence No. 111

CONSUMER FEDERATION OF AMERICA
1012 14th St. NW
Washington, DC 20005

NON-RESPONDER

Sequence No. 112

ENVIRONMENTAL IMPROVEMENT ASSOC.
109 Chestnut St.
Salem, NJ 08079

NON-RESPONDER

Sequence No. 113

FEDERATION OF AMERICAN SCIENTISTS
203 C St. N.E.
Washington, DC 20002

NON-RESPONDER

Sequence No. 114

NATIONAL CLEAN AIR COALITION
620 C St. S.E.
Washington, DC 20003

NON-RESPONDER

A Resource Guide for Health Science Students

Sequence No. 115

COMMITTEE FOR NUCLEAR RESPONSIBILITY

P.O. Box 11207

San Francisco, CA 94101

(415) 776-8299

Contact Person: John Gofman, M.D./Egan O'Connor

The Committee for Nuclear Responsibility has a small board and several thousand contributors. They regularly produce substantive reports on the problems of nuclear weapons, nuclear energy, and alternative energy sources. Their intention is education of the public via literature and they also serve as an information source for anyone interested.

At present they are too small an operation to employ students or volunteers. However they may have plans in the future to involve medical students. They would be happy to cooperate with students by providing information so that they may educate others.

1. Speakers (no funds — at discretion of individual board members)
(not involved with the Committee per se.)

2. Printed Materials

3. Audio tapes

} Send for list.

Sequence No. 116

ALTERNATIVE ENERGY ASSOCIATION OF AMERICA

P.O. Box 26507

Albuquerque, NM 87125

NON-RESPONDER

Sequence No. 117

ALTERNATIVE ENERGY RESOURCES

435 Stapleton Bldg.

Billings, MT 59101

NON-RESPONDER

Sequence No. 118

ALTERNATIVE TECHNOLOGIES ASSOCIATION

P.O. Box 20571

Indianapolis, IN 46220

NON-RESPONDER

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sequence No. 119

CENTER FOR ENERGY AND MINERAL RESOURCES

Texas A&M University

College Station, TX 77843

NON-RESPONDER

Sequence No. 120

CENTER FOR ENERGY POLICY AND RESEARCH

N.Y. Institute of Technology

Old Westbury, NY 11568

NON-RESPONDER

Sequence No. 121

CITIZENS UNITED FOR RESPONSIBLE ENERGY

1342 30th St.

Des Moines, IA 50311

NON-RESPONDER

Sequence No. 122

ECOTOPE GROUP

3332 E. Madison

Seattle, WA 98112

NON-RESPONDER

Sequence No. 123

ENERGY INFORMATION CENTER

215 Fremont, 6th Floor

San Francisco, CA 94105

NON-RESPONDER

Sequence No. 124

ENVIRONMENTAL ACTION REPRINT SERVICE
2239 E. Colfax
Denver, CO 80206

NON-RESPONDER

Sequence No. 125

GEOHERMAL RESOURCES COUNCIL
Box 1033
Davis, CA 95616

NON-RESPONDER

Sequence No. 126

MIDWEST ENERGY ALTERNATIVES
P.O. Box 83202
Lincoln, NB 68501

NON-RESPONDER

Sequence No. 127

MASSACHUSETTS PUBLIC INTEREST RESEARCH GROUP (Mass PIRG)
233 N. Pleasant Street
Amherst, MA 01002

NON-RESPONDER

Sequence No. 128

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL
Department of Family and Community Medicine
55 Lake Avenue North
Worcester, MA 01605
(617) 856-3188

Contact Person: Barry S. Levy, M.D., M.P.H.
Assistant Professor
Occupational and Environmental Health

The University of Massachusetts Medical School is a State-operated teaching and service institution with 400 medical students and several hundred faculty members. The Department of Family and Community

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Medicine is one of its largest departments with 20-full-time faculty members and responsibilities for teaching, service, and research in preventive medicine, epidemiology, family medicine/primary care, and community medicine. Teaching is directed to students in required courses and clerkships as well as 32 family practice residents and practicing physicians, nurses, and other health care workers, through continuing education programs.

The Occupational and Environmental Health Unit, within the Department of Family and Community Medicine, is involved in teaching occupational and environmental health to medical students in required and elective courses and clerkships, development of curriculum materials (including a textbook) on occupational and environmental health, clinical and non-clinical consultation regarding work-related and other environmental health problems, and epidemiologic research on aspects of occupational and environmental health problems. The Unit has close working relationships with others at the University of Massachusetts Medical Center concerned with occupational and environmental health and occupational health specialists at the Harvard School of Public Health, Boston University School of Medicine, the University of Massachusetts (Amherst) Division of Public Health, the Massachusetts Coalition for Occupational Safety and Health (MassCOSH) and other labor-oriented groups, some medical directors of industrial firms in Massachusetts, and appropriate state and federal agencies.

Available jobs and activities include opportunities to assist in epidemiologic investigations, development of curriculum materials, and clinical and non-clinical consultations — either in elective courses or clerkships that can be individually arranged or in specific assistant positions, most of which are during summers.

Current research is focusing on work-related cancer and birth defects, waste anesthetic gases and other risks to medical workers, prevention programs in the workplace, and surveys of occupational health teaching programs. Syllabi and other curriculum materials are available. I am available to assist in teaching courses or clerkships or advise in their planning.

Sequence No. 129

POTOMAC ALLIANCE

Box 138

McLean, VA 22101

NON-RESPONDER

Sequence No. 130

TASK FORCE AGAINST NUCLEAR POLLUTION, INC.

P.O. Box 1817

Washington, DC 20013

(202) 547-6661

Contact Person: Franklin L. Gage

TFANP is a Washington-based citizens' lobby. It has collected about a half-million signatures on its Clean Energy Petition, and has presented these to members of Congress.

TFANP reports no student placements except in gathering signatures on its petitions. It reports no educational materials or speakers.

Sequence No. 131

SUPPORTERS OF SILKWOOD
317 Pennsylvania Ave. N.W.
Washington, DC 20003

NON-RESPONDER

Sequence No. 132

SOUTHWEST RESEARCH AND INFORMATION CENTER
P.O. Box 4524
Albuquerque, NM 87106

NON-RESPONDER

Sequence No. 133

AMERICAN HEALTH FOUNDATION
320 E. 43rd St.
New York, NY 10017
(212) 687-5673

Contact Person: Dr. S. D. Stellman

The American Health Foundation is a private, non-profit institution engaged in studies of the cause and prevention of cancer, heart disease, and other chronic diseases.

AHF employs students as summer interns for 2–3 months at \$135–\$175 per week. The job involves interviewing patients, medical records work, and coding. Occasionally students will take part in medical screening programs by doing venipuncture, pulmonary function testing, and blood pressure determinations. Volunteers are welcome, especially student-initiated volunteer efforts. AHF suggests volunteers might do medical survey work.

1. AHF has many staff professionals active in preventative medicine research who might be able to speak to or provide programs for medical student audiences.
2. AHF publishes *Preventive Medicine*.

Sequence No. 134

CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS, DOSH
455 Golden Gate Avenue
San Francisco, CA 94102
(415) 557-1946

Contact Person: Dr. Richard L. Wade
Deputy Chief of Health

Cal-DOSH is the state agency responsible for occupational health research, standard setting and enforcement in California.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Students are hired as summer interns or during the year at \$40–\$45/day to do research on occupational health problems and to investigate health complaints. A strong science background, particularly in chemistry or engineering, would be helpful. Medical students work with DOSH physicians on Health Effects research. Volunteers are welcome to work in a similar capacity.

The Department can provide speakers on:

- Toxicology
- Health Effects of Various Exposures
- Occupational Medicine
- Legal Enforcement

In addition, it can provide both federal and state standards and supporting evidence.

Sequence No. 135

NEW YORK PUBLIC INTEREST RESEARCH GROUP, INC. (NYPIRG)
5 Beekman St.
New York, NY 10038
(212) 349-6460

Contact Person: Walter L. T. Hang
Staff Scientist

NYPIRG is a not-for-profit, nonpartisan research and advocacy organization established and directed by New York State College and University students (150,000 members). It staffs lawyers, scientists and organizers, working with students and other citizens to shape public policy and influence consumer protection, energy and fiscal responsibility, political reform and social justice.

NYPIRG accepts student interns and volunteers on semester basis, work study, full time (rarely) to work in all phases of research, advocacy, administration, and support staff. Time commitment is variable. Pay is variable and commensurate with the qualifications and function of each individual. They have a "toxics outreach" program of special interest to medical students, and furthermore are quite open to arranging projects with medical students in whatever public interest fields they wish to pursue.

Wide variety of technical and non technical papers, pamphlets on environmental health issues, (especially on toxic chemicals in the Hudson River which is a current focus of their attention).

Sequence No. 136

THE DEPARTMENT OF SOCIAL MEDICINE
Montefiore Hospital
111 E. 210th St.
Bronx, NY 10467
(212) 920-4625

Contact Person: David Michaels or Ernest Brucker

The Department of Social Medicine at Montefiore Hospital is a teaching department affiliated with the Albert Einstein College of Medicine.

A Resource Guide for Health Science Students

The Department of Social Medicine offers summer internships and regular medical electives in occupational health. Students are employed at approximately \$100 per week for one or two months for union-based field education projects, for hospital occupational hazards projects (working with hospital employee health service), or other projects in occupational safety and health. The program is open to student initiated project proposals. Medical students might be able to help screen patients at the employee health service.

The Department of Social Medicine could provide speakers on the role of physicians and medical students in occupational health and on various curriculum approaches to occupational health in medical education.

Sequence No. 137

COMMISSION FOR THE ADVANCEMENT OF PUBLIC INTEREST ORGANIZATIONS

1875 Connecticut Ave., N.W., Suite 1013

Washington, DC 20009

(202) 462-0505

Contact Persons: Suzanne Harmon/Marlene Halverson

CAPIO was established by the Monsonn Medical Foundation to enlarge the constituency and capabilities of the public interest movement. The foundation supports the Commission particularly as it relates to community and environmental health.

The Commission hires students in the spring for clerical work and perhaps some writing. It pays minimum wage. Volunteers are also welcome, for 20–25 hours/week.

CAPIO holds workshops and conferences on various public interest issues and submits information and statements to government agencies and legislators on public interest issues. It also provides a computer information system detailing organizations, resources, publication references, legal decisions and government documents related to public interest issues. CAPIO also offers a public interest reference library and a citizen's guide to periodicals of public interest organizations.

Sequence No. 138

ALBERTA WORKERS' HEALTH, SAFETY AND COMPENSATION

Medical Services Branch

3rd Fl., 9820–106 St.

Edmonton, Alberta, Canada T5K 2J6

(403) 427-6724

Contact Person: Dr. Robert Orford
Director of Medical Services

The Occupational Health and Safety Division of the Alberta WHSC consists of 180 professionals in all fields of occupational health and safety. The Medical Services Branch has 3 occupational physicians, 3 occupational nurses, an epidemiologist, and an audiologist. The Division is responsible for enforcing Alberta's Occupational Health and Safety Act (1976), and provides a variety of consultative and educational services to workers and employers. Research is done both in-house and through contracts with local universities and other agencies. The Medical Services Branch is specifically concerned with the development of occupational health services, health monitoring programs, illness/injury investigation, hearing conservation, and the identification of occupationally related diseases using epidemiologic techniques.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Students may work in the Medical Services Branch either as volunteers or as interns. Past projects have included a) review of eye protection and visual performance standards with a comprehensive study of eye injury statistics; b) a study of serious eye injuries (which resulted in permanent disability); c) fitness programs for fire fighters; d) field study of peat moss workers exposed to *Aspergillus Fumigatus*; e) statistical review of occupational infectious diseases in Alberta, 1974-78. Interns earn \$400 (Canadian)/month. They may structure their own program, but must be willing to spend a minimum time of two contiguous months on the project. For U.S. citizens, a visa must be obtained.

Alberta is a rapidly expanding area in terms of its economy and population. Opportunities also exist for students to do electives with certain major employers should they choose. Referrals are available through the Director of the Medical Branch.

Sequence No. 139

PHYSICIANS FOR SOCIAL RESPONSIBILITY

56 North Beacon St.

Watertown, MA 02172

(617) 924-3468

Contact Person: Carol Belding

PSR was originally created by a group of physicians opposed to the Vietnam War. It now has a membership of over 1000 physicians throughout the country who are concerned with the health effects of Nuclear Power and Weaponry, and issues of Energy Conservation. Helen Coldicott, a Boston pediatrician and noted anti-nuclear power activist, is currently the president of PSR. There are regional chapters located in most major cities. The national office is located in the Boston area.

PSR does not offer opportunities for student projects. However, it maintains an extensive listing of speakers in areas around the country who are available to talk about the health effects of nuclear power. PSR has a library of related references in the national office, and publishes packets of information on various topics concerning nuclear power. These are available for around \$3.

GEOGRAPHICAL INDEX

Index

ALBERTA

Alberta Workers' Health, Safety and Compensation 53

ARIZONA

University of Arizona Health Sciences Center 15

CALIFORNIA

California Department of Industrial Relations
DOSH 51
California Public Policy Center 36
Committee of Atomic Bomb Survivors 39
Committee for Nuclear Responsibility 47
Energy Information Center 48
Friends of the Earth 43
Geothermal Resources Council 49
Labor Occupational Health Program 27
Natural Resources Defense Council 33
Sierra Club 29
University of California, Irvine 16
Western Institute for Occupational/Environmental
Sciences, Inc. 30
Wind Energy Society of America 45

COLORADO

Environmental Action Reprint Service 49
Oil, Chemical and Atomic Workers
International Union 22

DISTRICT OF COLUMBIA

Action on Smoking and Health 45
American Public Health Association 40
Center for Science in the Public Interest 43
Commission for the Advancement of Public
Interest Organizations 53
Conservation Foundation 41
Consumer Federation of America 46
Consumer Product Safety Commission 11
Critical MASS Energy Project 39
Environmental Action 41
Environmental Defense Fund 42
Environmental Policy Institute 42
Environmentalists for Full Employment 43
Federation of American Scientists 46
Industrial Union Department, AFL-CIO 21
Institute for Policy Studies 39
International Association of Machinists and
Aerospace Workers 26
International Brotherhood of Teamsters 27
International Union of Electrical Radio and
Machine Workers (AFL-CIO) (IUE) 25
National Clean Air Coalition 46
National Energy Information Center 44

DISTRICT OF COLUMBIA (continued)

Natural Resources Defense Council 33
Nuclear Information and Resource Service 36
Occupational Safety and Health
Administration 4
Public Citizen Health Research Group 32
Public Resource Center 33
Rachel Carson Trust for the Living
Environment 34
SANE, Committee for a Sane Nuclear
Policy 36
Society for Occupational and Environmental
Health 34
Solar Lobby 35
Supporters of Silkwood 51
Task Force Against Nuclear Pollution, Inc. 50
United Brotherhood of Carpenters and
Joiners 26
United Mine Workers of America 25
United States Environmental Protection
Agency 7
Urban Environment Conference 27
Utility Workers Union of America 26

GEORGIA

Center for Disease Control 12

ILLINOIS

Amalgamated Meat Cutters 26
American Academy of Occupational
Medicine 38
American Occupational Medical
Association 37
CACOSH 21
Citizens for a Better Environment 37
Council on Occupational Respiratory
Disease 38
University of Illinois at the Medical
Center 16

INDIANA

Alternative Technologies Association 47

IOWA

Citizens United for Responsible Energy 48

LOUISIANA

Ecology Center of Louisiana, Inc. 28

MARYLAND

Food and Drug Administration 12
Johns Hopkins School of Hygiene and
Public Health 13
Maryland COSH 18

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

MARYLAND (continued)

- National Cancer Institute 11
- National Institute for Occupational Safety and Health 2
- National Solar Heating and Cooling Information Center 45
- United Rubber Workers Local 26 24

MASSACHUSETTS

- Harvard School of Public Health 14
- Massachusetts Public Interest Research Group (Mass PIRG) 49
- MASSCOSH 21
- National Consumer Law Center 36
- Physicians for Social Responsibility 54
- Science for the People 37
- Union of Concerned Scientists 34
- University of Massachusetts Medical School 49

MICHIGAN

- United Automobile Workers 23

MINNESOTA

- University of Minnesota School of Public Health 15

MISSOURI

- Aluminum Workers International Union 27
- Center for the Biology of Natural Systems 35

MONTANA

- Alternative Energy Resources 47
- National Center for Appropriate Technology 44

NEBRASKA

- Midwest Energy Alternatives 49

NEW JERSEY

- Environmental Improvement Assoc. . . . 46
- New Jersey Committee on Occupational Safety and Health (NJCOSH) 21
- Sierra Club — New Jersey Chapter 29

NEW MEXICO

- Alternative Energy Association of America 47
- New Mexico Occupational Health Program 31
- Southwest Research and Information Center 51

NEW YORK

- Almagamated Clothing and Textile Workers Union, AFL-CIO 23

NEW YORK (continued)

- American Health Foundation 51
- American Lung Association 40
- Center for Energy Policy and Research 48
- Center for Occupational Hazards, Inc. . . . 41
- Consumers Union 46
- Department of Social Medicine 52
- Health Policy Advisory Center 31
- Hudson River Sloop Clearwater, Inc. . . . 30
- Institute for Labor Education and Research 32
- Labor Safety and Health Institute 28
- Mount Sinai School of Medicine 16
- National Urban League 34
- Natural Resources Defense Council 33
- New York Committee for Occupational Safety and Health (NYCOSH) 20
- New York Public Interest Research Group, Inc. (NYPIRG) 52
- New York State School of Industrial and Labor Relations 27
- Occupational Health Media Project 33
- Scientists Institute for Public Information 34
- Total Environmental Action 44
- United Electrical, Radio, and Machine Workers of America (UE) 25
- United Paperworkers 25
- Women's Occupational Health Resource Center 35
- WNYCOSH — Western New York Council on Occupational Safety and Health 18

NORTH CAROLINA

- National Institute of Environmental Health Sciences 6
- NCOSH 20
- University of North Carolina School of Public Health 13

OHIO

- Glass Workers Union of North America 26
- International Chemical Workers Union 24
- National Institute for Occupational Safety and Health 2
- Ohio State University Labor Education and Research Service 28
- United Rubber, Cork, Linoleum and Plastic Workers of America, AFL-CIO 24

PENNSYLVANIA

- Environmental Coalition on Nuclear Pollution 39
- Industrial Health Foundation, Inc. . . . 38
- Mobilization for Survival 39
- PHILAPOSH 19
- United Steelworkers of America 25

Index

RHODE ISLAND

RICOSH 19

TENNESSEE

TNCOSH (Tennessee COSH) 17

TEXAS

Center for Energy and Mineral Resources 48

University of Texas Health Science Center 13

UTAH

Wood Energy Institute 45

VIRGINIA

Potomac Alliance 50

WASHINGTON

Ecotope Group 48

University of Washington 14

WISCONSIN

University of Wisconsin Extension

— School for Workers 29

WISCOSH (Wisconsin COSH) 18

WEST VIRGINIA

National Institute for Occupational Safety
and Health 2

DEPARTMENT OF
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