Researchers Give Views On Detection, Diagnosis Of Cancer at Meeting

Papers on the detection and diagnosis of cancer were presented early last month at the National Conference on Advances in Cancer Management. The meeting, sponsored jointly by the National Cancer Institute and the American Cancer Society, took place in Denver.

In the opening address, Dr. Nathaniel L. Berlin, former director of NCI’s Division of Cancer Biology and Diagnosis, considered the early diagnosis of cancer as the simplest approach to effective treatment. Dr. Berlin now heads the Cancer Center at Northwestern Medical School.

“Two-thirds of cancer patients have metastases at the time they first present themselves to a physician, but these are rarely recognized clinically,” he noted. “The goal of diagnostic research programs is to make the diagnosis before metastasis occurs,” Dr. Berlin said.

If cancer is not detected until a patient has symptoms of the disease, it is often too late for curative treatment. By then most patients will have developed metastatic disease, he explained.

Dr. Berlin said that research is directed toward a diagnostic screening system for asymptomatic, apparently healthy people.

Other problems in cancer detection are to determine who will be (See VIEWS ON CANCER, Page 7)

DRG Is Establishing Four New Study Sections for Initial Review

Four new study sections—Experimental Virology, Molecular Cytology, Pathobiological Chemistry, and Immunological Sciences—have been established by the Division of Research Grants.

Like those study sections that have been functioning for many years, these will provide initial scientific review of applications for NIH research and research training support.

They will meet for the first time in September to recommend applications for presentation to the advisory councils in November.

NIH HONOR AWARDS CEREMONY

NIH’ers Cited for Administrative, EEO, Research, and Other Accomplishments

Meritorious Service Medals

The Seventh Annual NIH Honor Awards Ceremony will be held on Monday, June 9, at 2 p.m. in the Masur Auditorium.

NIH employees who will be recognized for contributions in their respective fields include six PHS Commissioned Officers and 37 Civil Service employees.

An NIH'er was formerly with the Department of the Navy and will receive the Superior Civilian Service Award from that agency for her work during her tenure there.

An NIH-EEO Award of the Year will be given to an employee who has retired from Government service, and two employees will receive 40-year Length-of-Service Awards.

Dr. Ronald W. Lamont-Havers, NIH Acting Director, will present the awards and give the principal address. Leon M. Schwartz, Associate Director for Administration, will read the award citation of each employee.

Dr. Donald S. Fredrickson, who is expected to be sworn in as NIH Director this month, will also speak at the ceremony.

Before the awards are given to the recipients, the Joint Armed Forces Color Guard will present Colors, and the Air Force Ceremonial Band will perform.

NIH Employees Invited

All NIH employees are invited to attend the ceremony which will last about one hour. Afterwards, a reception for the award recipients, their families, and invited NIH, PHS, and other HEW officials will be held in the patio area of the Clinical Center cafeteria.

Meritorious Service Medal recipients:

DR. RICHARD A. TJALMA, assistant director, National Cancer Institute, “In recognition of an outstanding career of over 21 years... meritorious accomplishments... and for special services in support of the program and goals of the National Cancer Program.”

DR. WILLIAM B. KANNEL, director, Framingham Heart Disease Epidemiology Study, Division of Heart and Vascular Diseases, National Heart and Lung Institute, “. . . successful direction and conduct of the... Study which has firmly established the role of risk factors in several cardiovascular diseases.”

(Continued on Page 1)
**Mothers Who Smoke Affect Child Health**

Pediatricians are posting on their waiting room walls a new sign they hope will be heeded by mothers:

*FOR THE HEALTH OF OUR CHILDREN*  
*PLEASE DON'T SMOKE*

Children experience specific adverse effects when the mother smokes, according to spokesmen for the National Cancer Program and the American Academy of Pediatrics, distributors of the waiting room signs to 16,000 pediatricians throughout the country.

A recent study has shown that smoking two cigarettes during the final weeks of pregnancy reduces the breathing movements of the fetus which are increasingly used as an index of fetal health.

On the average, infant birth-weight is reduced about 6 ounces if the mother smokes during pregnancy. Most studies show no effect on infant mortality, but a few do.

**Think of Your Children**

Several studies have shown that children whose parents smoke have a higher incidence of bronchitis and pneumonia during their first year than children of non-smokers. When children have asthma, the condition is aggravated by parents' smoking.

To publicize the potential harm that smoking can inflict on children, the signs are being made available without charge to other child-related organizations through the Office of Cancer Communications, NCI, Bethesda, Md. 20014.

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**Scanning Electron Microscopy**

A course on Scanning Electron Microscopy—a series of identical classes which meet 5 days each commencing June 8, 16 and 23—is being offered by the George Washington University Medical Center.

Enrollment is limited to four persons in each class. Tuition is $500. For information, write Fred Lightfoot, G.W.U., Dept. of Anatomy, Washington, D.C. 20037, or call him at (202) 351-2881 or 6511.

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**Dr. Kirschstein to Speak At F.E.W. Awards Dinner**

Dr. Ruth L. Kirschstein, Director of the National Institute of General Medical Sciences, will be the guest speaker at the awards dinner for Federally Employed Women to be held Wednesday, June 18, at 7 p.m. at the Naval Officers' Club, Bethesda Naval Hospital.

The first woman Director of an NIH Institute, Dr. Kirschstein will discuss the obstacles women face in reaching top management and policy-making positions.

The program will also include presentation of Suburban Maryland Chapter F.E.W. awards to individuals or groups who have made major contributions to the promotion of equal job opportunities for women.

Call Gloria Johnson, 443-2953, Room 1256, Parklawn Bldg., for further information or to make reservations at $6 per person.

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**U.S. Savings Bond Campaign Extended; Drawing June 13**

The 1975 U.S. Savings Bond Campaign has been extended until June 13 to help NIH reach its goal of a 40 percent level of participation.

Each of the 18 NIH Institutes and Divisions has increased its percentage of participation since the start of the campaign, but canvassers are hard at work to raise that level.

The prize drawing has been rescheduled for Friday, June 13, at 2 p.m. in Bldg. 35, Conference Room 8A-30.

New bond buyers through the payroll deduction system, or those who are increasing their bond allotments, are eligible for the prize drawing and may obtain tickets from their canvassers.

Also, additional charges can be made for management control, and any charges that exceed costs will be returned to the U.S. Treasury.
Suggestion Improves Photos of Tissue; Employee Wins Cash Award

L. Kenzie Edwards, a photographer for NCI's Division of Cancer Biology and Diagnosis, recently received a cash award of $200 for his employee suggestion.

Mr. Edwards developed a device that yields undistorted pictures, taken underwater, of flat-cut surfaces of human lungs removed during surgery for cancer or other lung diseases.

The resulting photographs are used to illustrate research on lung diseases, as patient follow-up information in clinical care projects, and in pathology conference presentations.

The NCI photographer designed a series of heavy metal templates of various sizes, to accommodate for flattening in clinical care projects, with the different lobes of the lung. Plastic foam can be fastened to the templates. The flat-cut surfaces of lung are then pinned to the foam.

Process Explained

In this way, the surfaces remain flat, but the templates holding the specimens underwater are not visible in the picture, which is free of distortions and easy to read.

Conventional techniques require several days to obtain a few usable photos. With Mr. Edwards' suggestion, the time required has been greatly reduced and all of the pictures are of high quality.

Mr. Edwards has been with NIH since 1952 and joined NCI in 1956.

Six Doctors in Academic Field Join NIAID Council

Six doctors in the academic field have been appointed to the National Advisory Allergy and Infectious Diseases Council. They are: Dr. Marilyn L. Bach, University of Wisconsin; Dr. Mary Jo Carter, Medical College of Georgia; Dr. Roger Estep, Howard University; Dr. Bernard Friedman, Brown University; Dr. Margaret L. Heidrick, University of Nebraska, and Dr. J. Vernon Knight, Baylor University.

Dr. Bach, an assistant professor of pediatrics and a member of the Immunobiology Research Center at Wisconsin's Medical School, has been actively involved in the genetic aspects of immunology and has a special knowledge of host reactions in organ transplantation.

Dr. Carter's research interests include viral diseases, such as encephalitis and yellow fever, and the action of antibiotics in bacterial infections. She is professor of infectious diseases, department of medicine, in the medical college.

As vice president for development and university relations at Howard, Dr. Estep has developed university policies and research programs. He has also served as a consultant to Federal and professional veterinary projects.

Dr. Friedman is assistant professor of biochemistry at the University of Nebraska College of Medicine. His basic research has been on factors determining immune reactions, particularly in aging and cancer.

She has served as a postdoctoral fellow at the Oak Ridge National Laboratory and is currently at NICH's Gerontology Research Center.

Dr. Friedman joined the Brown faculty in 1972.

An expert in the field of immunology, Dr. Heidrick has contributed to research in Rhode Island and is a consultant to the Massachusetts Department of Public Health.

Dr. Knight is a professor of biochemistry, Department of Public Health, at Brown University. He has been actively involved in the genetics of infectious diseases.

After teaching in the medical schools of Cornell and Vanderbilt, he became NIAID clinical director in 1959. In 1960 he left NIAID to accept his current position.

Dr. Knight has held numerous advisory positions including 4 years on the Board of Scientific Counselors of what is now FDA's Bureau of Biologics.

Computer Manual Shows Graphic Plot Capabilities

Extended graphic capabilities are now available to the user of the new Integrated Plotting Package (IPP).

These are described in a new manual which replaces the preliminary one issued by the Division of Computer Research and Technology last year.

IPP features the ability to generate plots which may be processed interchangeably by the following devices: the Calcomp Plotter, the line printer, the Teltronic 4010 family of graphic displays, and the Stromberg Datagraphix 4400 (microfilm or microfiche).


Questions concerning the software and documentation should be directed to Douglas Ashbrook in the Laboratory of Applied Studies, Ext. 66561.
HONOR AWARDS CEREMONY TO BE HELD JUNE 9 IN MASUR AUDITORIUM

(Continued from Page 1)

DR. RONALD DUNBAR, chief, Neurobiology and Anesthesiology Branch, National Institute of Dental Research, "... outstanding leadership in the field of pain and pain control research ... contributions in the neurohistological mechanisms of pain in the oral-facial region."

DR. HERSHEL E. HOROWITZ, chief, Cardiovascular Branch, National Heart and Lung Institute, "... leadership in the National pragram... studies on the mechanisms of heart and vascular disease, NHLI."

DR. ROBERT H. LEVY, director, Division of Heart and Vascular Disease, NHLI, "... leadership and creative management in the operation of the Division."

DR. VINCENT T. Devita, Jr., director, Division of Cancer Treatment, National Cancer Institute, "... outstanding contributions to the advancement of immuno- genetics ... leadership in understanding the genetic region which controls the synthesis of immunoglobulins and antibody molecules."

Others Receive Awards

DR. FRANKLIN A. NEVA, chief, Laboratory of Parasitic Diseases, NIAID, "... leadership in reorganizing ... redirecting parasitological research programs ... development of clinical diagnostic tools ... other protozoal infections."

FRED EDERER, senior, Section on Clinical Trials and Natural History Studies, National Eye Institute, "... leadership in ... development ... ophthalmic research programs ... distribution of eye diseases ... visual disorders."

DR. JOHN H. FOLK, chief, Enzyme Chemistry Section, Laboratory of Biochemistry, National Institute of Dental Research, "... outstanding contributions to ... understanding ... mechanism of action of enzymes."

DR. RICHARD H. LARSON, chief, Preventive Methods Development Section, NIDR, "... contributions to the dental research program ... especially her significant findings related to ... carries, with particular emphasis on causation and prevention."

DR. PHILIP A. CORFMAN, director, Center for Population Research, National Institute of Child Health and Human Development, "... scientific leadership ... administrative achievement in organizing ... Center for Population Research."

Chosen for Studies

DR. GRIPP TERRY ROSS, assistant chief, Reproduction Research Branch, head, Endocrinology Service, NICHD, "... definitive studies on the life cycle of the human ovarian follicle and the human menstrual cycle."

VERNICE D. FERGUSON, chief, Nursing Department, Clinical Center, "... personal leadership ... dedication to the progressive administrative ... operation Nursing Department, CC."

KATHRYN K. HUMMELSBAUGH, chief, Cancer Social Work Section, CC, "... exceptional leadership ... providing comprehensive social services to patients and families, ... significant sustained contribu tion to community education."

DR. CARL T. HANSEN, Small Animal Section, VRB, Division of Research Services, "... contribution of ... new animal models for studying human diseases ... establishment of ... genetic repository of strains for biomedical research."

WILLIAM H. SCHUETTE, electronic engineer, BEIB, DRB, "... contributions to biomedical research and clinical services via the conception ... development of electronic instrumentation systems."
Department of the Navy Superior Civilian Service Award recipient:

JUNE T. CALDWELL, coordinator, Federal Women's Program, NIH; former social science analyst, Bureau of Naval Personnel, Department of the Navy, "...unique and outstanding efforts ... achievements in the design, development ... implementation ... U.S. Navy's Race Relations Education Program during ... August 1971 through October 1974."

NIH EEO Achievement Award of the Year:

JAMES B. DAVIS, former Director, Division of Administrative Services, Office of the Director, "...commitment to equal opportunity objectives, ...leadership in contributing to upward mobility ... establishing better understanding between employees and managers ... dedication to improving conditions for ... DAS workforce."

The two NIH employees who received 40-Year Length-of-Service Awards are Bruce P. Phillips, research biologist, Laboratory of Parasitic Diseases, NIAID, and Margaret F. Roberts, head, Contracts Section, Division of Financial Management, OD.
NIH Visiting Scientists Program Participants

<table>
<thead>
<tr>
<th>Date</th>
<th>Name and Institution</th>
<th>Position</th>
<th>Sponsor</th>
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<tr>
<td>5/1</td>
<td>Dr. Ilona Linnuola</td>
<td>Finland, Pharmacology Branch</td>
<td>Dr. J. R. Fouts, NIEHS, Research Triangle Park, N.C.</td>
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<tr>
<td>5/5</td>
<td>Dr. Masaharu Miyake</td>
<td>Japan, Laboratory of Chemistry</td>
<td>Dr. John Daly, NIAMDD, Bg. 3, Rm. 610</td>
</tr>
<tr>
<td>5/5</td>
<td>Dr. Denis Nadeau</td>
<td>Canada, Pharmacology Branch</td>
<td>Dr. G. E. R. Hook, NIEHS, Research Triangle Park, N.C.</td>
</tr>
<tr>
<td>5/12</td>
<td>Dr. Marcello A. Becinski</td>
<td>Brazil, Laboratory of Clinical Investigations</td>
<td>Sponsor: Dr. Alan Rosenthal, NIAID, Bg. 10, Rm. 11N224</td>
</tr>
<tr>
<td>5/15</td>
<td>Dr. M. Spasovska</td>
<td>Yugoslavia, Pulmonary Branch</td>
<td>Sponsor: Dr. Ronald Crystal, NHLI, Bg. 10, Rm. 6D07</td>
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<tr>
<td>5/19</td>
<td>Dr. Toshio Inouye</td>
<td>Japan, Drug Research and Development</td>
<td>Sponsor: Dr. Abraham Goldin, NCI, Bg. 37, Rm. 8220</td>
</tr>
<tr>
<td>5/19</td>
<td>Dr. A. Shehata</td>
<td>Egypt, Laboratory of Physiology</td>
<td>Sponsor: Dr. Seoras Morrison, NCI, Bg. 10, Rm. B1B53</td>
</tr>
<tr>
<td>5/21</td>
<td>Dr. Guang-Fu Huang</td>
<td>Taiwan, Laboratory of Chemistry</td>
<td>Sponsor: Dr. Paul Torrence, NIAMDD, Bg. 4, Rm. 226</td>
</tr>
<tr>
<td>5/22</td>
<td>Dr. Marcos Rodriguez</td>
<td>Argentina, Unit on Electron Microscopy</td>
<td>Sponsor: Dr. Monique DuBois-Daloz, NINCDS, Bg. 36, Rm. 8C10</td>
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Job Classification Will Be Topic Of F.E.W. Meeting June 26

How Government Jobs Are Classified will be the topic of the June 26 meeting of Federally Employed Women to be held in Conference Room E, Parklawn Bldg., from noon to 1 p.m.

The guest speaker, Esther Lawton, is Deputy Director for Personnel, Treasury Department, as well as President of the American Classification Society.

What we call experience is often a dreadful list of ghastly mistakes.

—J. Chalmers DuCosta

Drs. Warren and Levin, Helen Chang Appointed To NIGMS Adv. Council

Dr. W. Dean Warren has accepted membership on the National Advisory General Medical Sciences Council. Dr. Warren is chairman, department of surgery, School of Medicine, at Emory University. His term will run through September 1978.

Dr. Warren had also served as professor and chairman of the department of surgery at the University of Miami School of Medicine.

He was also dean of that school and vice president for medical affairs. In 1971, he accepted his present position.

Others Appointed

Two other members have also been appointed to the NIGMS Advisory Council. They are Dr. Louis Levin and Helen H. Chang.

Dr. Levin recently retired from Texas Tech University where he was university professor and special consultant in evaluation and planning.

He has held several posts in the National Science Foundation.

He has also been dean of science and associate dean of faculties at Brandeis University.

Did Research in Paris

Ms. Chang is director of the Pasadena Alcoholism Center, Department of Public Health. She has been a research fellow at the Pasteur Institute in Paris.

During her career in the health fields she has served as a health educator in several posts including the Saugus Alcohol Rehabilitation Center in Los Angeles and as senior health educator in Pasadena's Department of Public Health.

3d Meeting Considers Heavy Metals' Effects

The National Institute of Environmental Health Sciences cosponsored the third of a series of conferences on Heavy Metals in the Environment on May 15-16 at the University of North Carolina.

The conferences evaluated current knowledge concerning the potential toxicity of trace metals so that environmental health problems from increased energy consumption or the use of alternate sources can be anticipated.

Metal Emissions Discussed

The principal topics discussed were the emission of metals, and the toxicity of platinum and palladium in relation to their emission by control devices on 1975 model cars.

Participants included representatives of the U.S. Geological Survey, Oak Ridge National Laboratory, Southwest Research Institute, General Motors, Karolinska Institute, Battelle Institute, the Food and Drug Administration, and the Environmental Protection Agency, as well as a number of universities.

The Environmental Metals Group, composed of scientists in the Research Triangle area concerned with toxic metals as environmental agents, co-sponsored the conference.

Standing next to some of the 100 books they have each read, John Green (l) and Charlie Singletary display certificates presented by D. E. Richard, supervisor of the Montgomery County Adult Basic Education Program. Mr. Singletary won extra prizes for reading 100 books in a shorter period of time. Other members of the 10:30 a.m. Adult Education Class gave a party for the two men, who prefer biographies and histories to lighter reading matter.

Dr. W. Dean Warren has also served as dean of science and was president of the American Classification Society.

The Environment Metals Group, consisting of scientists in the Research Triangle area concerned with toxic metals as environmental agents, co-sponsored the conference.

Advices on Behavioral Aspects

In the Office of Prevention, Control, and Education, NHLI, Dr. Dembroski serves as consultant and advisor to the Institute's staff on behavioral aspects of chronic diseases and plans for behavioral research. He is also studying threat effects on the manner in which children control their own behavior.

After receiving his Ph.D. from the University of Houston, Dr. Dembroski became assistant professor of psychology at Eckerd College (formerly Florida Presbyterian College). In addition, he was a research consultant to the Southern Regional Education Board, Phipps Florida Foundation, and Brevard County's Center for Environmental Living.
Family histories may reveal consistent evidence of genetic skin disorders, chromosomal abnormalities, defects in structural development, immune defects, enzyme deficiencies, or characteristic blood protein patterns.

Genetic influence in cancer development may be more visible in families in which there is evidence of cancer-related syndromes. Medical examinations of a particular family should include young adults and children, Dr. Fraumeni emphasized.

In discussing immunologic tests for cancer, Dr. Herberman, chief, NCI Laboratory of Immunodiagnosis, said the body's immune system may be useful for more than defense against disease.

It may also prove effective in screening populations and high-risk groups for the presence of cancer, monitoring the course of treatment for the disease, and providing a means for early detection of metastatic spread of cancer.

The NCI scientist discussed certain immunologic procedures that may prove useful. Tumors may release characteristic antigens into the bloodstream of the host.

An antigen is a substance that can stimulate an immune response such as formation of antibodies in the host or in animals injected with the antigen.

One such antigen, the subject of a great deal of research, is carcinoembryonic antigen. A test for CEA is being used in combination with other medical procedures for the diagnosis and management of several forms of cancer.

Dr. Herberman also spoke on antigen research at other institutions receiving NCI support.

Fetal Protein Is Significant

Dr. Waldbmann, chief, NCI Metabolism Branch, spoke about a substance—alpha-fetoprotein—that is normally present in the blood of fetuses.

Alpha-fetoprotein may reappear in adults with certain types of cancer and can be used to detect the presence of those cancers.

He explained the significance of its presence and of its changes during the course of cancer therapy. In addition to serving as a means to detect cancer, AFP may also be used to monitor the progress of therapy, Dr. Waldmann specifically cited studies with NCI patients to further elucidate his research.

Tennis Entries Due by June 6; June 11 Tournament Play Begins

The NIH Tennis Club will hold its Spring Tournament—open to all NIH employees and spouses—beginning June 11.

Entries are invited for men's singles, women's singles, men's doubles, women's doubles, and mixed doubles. A minimum of eight players or teams must be entered to hold formal play in any division.

The NIH Tennis Club will hold its Spring Tournament—open to all NIH employees and spouses—beginning June 11.

COUNCIL ON AGING

(Continued from Page 1)

Latin American Cancer

Research Data Available

The Pan American Health Organization and NCI recently agreed to form the Latin American Cancer Research Information Program, making cancer research information from Latin America more readily available worldwide through the National Cancer Program.

United States investigators will gain faster access to Latin American scientists' research and provide cancer research information services to their countries.

The program will initially serve:
- Identify major Latin American institutions devoted to research in cancer causation, diagnosis, treatment and rehabilitation, and related basic research;
- Plan joint meetings related to data collection and dissemination;
- Collect published abstracts of cancer research literature and descriptions of ongoing cancer research projects in the region;
- Provide this data to the International Cancer Research Data Bank located in NCI's Office of International Affairs.

The IRCDB, directed by Dr. John Schneider, serves as the NCI center for rapid global exchange of cancer information. Its computerized information system, CANCERLINE, gives scientists instant access via computer terminals to information on cancer research results and current projects.

PAHO will appoint a coordinating committee for LACRIP to serve as liaison with NCI's Office of International Affairs.

Everyone complains of his memory, none of his judgment.—La Rochefoucauld.

Dr. Wesley H. Bradley has joined NINCRDS as director of that Institute's new Communicable Disorders Extramural Research Program which was formed in the recent NINCRDS reorganization to stress biomedical research in otolaryngology and communicative disorders. Dr. Bradley came to the campus from State University of New York College of Medicine in Syracuse where he was clinic associate professor of otolaryngology.
Women and Minorities Examine

Biomedical Research Roles

As part of the NIH effort to implement its commitment to equal opportunity and its relationship with the minority community, 131 representatives—faculty, students, and scientists—from approximately 70 minority and women's colleges, as well as representatives from 10 national organizations, met here April 22-24.

Storm Whaley, NIH Associate Director for Communications, opened the conference with a summary of the scientific activities of NIH and its components.

The 3-day conference was designed to familiarize participants with the varied research programs and activities, career opportunities, and biomedical research support available under the grants and awards programs. A second goal was making NIH aware of the resources and capabilities of minority and women's schools.

Workshop topics included: NIH research institutes' missions, minority programs at NIH, extramural and collaborative contract programs, and perspectives of women on health science careers.

A report now in preparation contains a number of the conference participants' recommendations which will be submitted to the NIH Director for action. The confernees will be kept informed of the status of the recommendations.

At the close of the conference, Dr. Ronald W. Lamont-Haver, Acting NIH Director, explained that the Institutes are undergoing a period of change.

The next decade will bring new knowledge and challenges, including new methods of health care delivery, he stated. NIH welcomes inquiries concerning its scientific programs, he continued, including means of increasing Government support for biomedical research and of aiding participation in these programs by minorities and women.

He noted that additional conferences of this nature are essential to keeping open the lines of communication established during the 3 days of this conference.