



We Gratefully Acknowledge
Support To The Fall '90 Symposium Provided By

Mr. Jake Ackerman	Central Intelligence Agency
Mr. Dave Bond	Central Intelligence Agency
Ms. Mary Bourne	Central Intelligence Agency
Mr. James Bryant	National Security Agency
Ms. Donna Cooper	Central Intelligence Agency
Mr. George Cotter	National Security Agency
Ms. Linda Godwin	Guest Services Inc.
Mr. James Hirsch	Central Intelligence Agency
Mr. Mike Lewis	Central Intelligence Agency
Mr. Damian Martineau	Guest Services Inc.
Ms. Beth Meier	Central Intelligence Agency
Ms. Rose Miller	Central Intelligence Agency
Mr. Melvin Turner	National Security Agency
Mr. Jim Wood	Central Intelligence Agency

THE SECURITY AFFAIRS SUPPORT ASSOCIATION



21 April 1990

WELCOME:

On the threshold of the new decade, SASA is looking ahead to the challenges emerging in the wake of the dramatic developments that have taken place recently--and continue to unfold--on the world scene. Clearly, these happenings will alter our nation's modus vivendi of many years. There is, however, much to be resolved before anything approaching clarity removes the prevailing uncertainties. As we seek to understand what has and is happening, SASA will continue its traditional focus on the national intelligence endeavor and in so doing will place new programatic emphasis on the identification and examination of those particular elements of change to which the endeavor will most likely have to respond. In consonance with that intention, the Spring '90 program has been designed as our initial exploration of world events and their possible implications for the national intelligence endeavor in the future.



As is readily apparent from a review of the program, we have again been extremely fortunate in being able to arrange for the participation of an outstanding group of key professionals from government and industry to enlighten us with their perspectives on the occurrences of recent months--to each of them, we are deeply indebted.

And to our host, the Central Intelligence Agency, for permitting us once more to enjoy their superb facilities and warm hospitality, we are most grateful.

Sincerely,

Pete Aldridge
President, SASA

THE SECURITY AFFAIRS SUPPORT ASSOCIATION

P R O G R A M

P R O G R A M

SATURDAY, 21 APRIL 1990

0700 - 0830

Registration

0830 - 0835

Administrative Announcements

0835 - 0845

OPENING REMARKS

The Honorable E. C. "Pete" Aldridge, Jr.
President, SASA

0845 - 0930

KEYNOTE ADDRESS

The Honorable Duane P. Andrews
Assistant Secretary of Defense
Command, Control, Communications and Intelligence

SESSION I

The session will deal with major intelligence topics and provide a strategic forecast for each area.

0930 - 1000

U.S. MILITARY FORCES AND THE CHANGING THREAT

General Alfred M. Gray, USMC
Commandant, United States Marine Corps

1000 - 1030

WEAPONS SYSTEMS AND ARMS CONTROL

Mr. Robert Foord *Bob*
Director, Office of Scientific and Weapons Research
Central Intelligence Agency

1030 - 1050

Break

1050 - 1120

ECONOMICS AND TRADE

Ms. Michelle K. Van Cleave
Assistant Director, National Security Affairs
Office of Science and Technology Policy
Executive Office of the President

1120 - 1150

UNCONVENTIONAL TARGETS

Mr. Karl W. Ruyle
Deputy Chief, DCT's Counterterrorist Center

1150 - 1220

COUNTERINTELLIGENCE

Mr. Hugh E. Price *TEP*
Associate Deputy Director For Operations
for Counterintelligence

1220 - 1330

Lunch

SESSION II

This session will deal with intelligence disciplines and subdisciplines with speakers describing the strategic directions that they see ahead; major problems and issues; emphasis on technology needs.

1330 - 1400

SESSION KEYNOTE ADDRESS

The Honorable Martin C. Faga *MARTY*
Assistant Secretary of the Air Force (Space)

A senior Program Manager's view of the demands and pressures, cross program imperatives, bridging from requirements and customers to programs and systems.

1400 - 1430

SIGINT OVERVIEW

Mr. John Devine *SACK*
Chief of Staff
National Security Agency

1430 - 1500

ELINT IN THE 90'S

Colonel Gerald F. Custin, USAF
Deputy Chief, Office of ELINT
National Security Agency

1500 - 1520

Break

1520 - 1550

NATURAL LANGUAGE SYSTEMS

Mr. Morris B. Levine *MOBLEY*
Chief, Office of Technical Support
National Security Agency

1550 - 1620

INFORMATION SYSTEMS TECHNOLOGY

Mr. David L. Austin *DAVE*
Assistant Deputy Director, T&CS (Technology)
National Security Agency

1620 - 1650

MASINT

Mr. Alvin Bales
Vice Chairman, DCT's MASINT Committee

1700 - 1900

Reception

SUNDAY, 22 APRIL 1990

0700 - 0830

Registration

0830 - 0900

IMAGERY OVERVIEW

Mr. Wayne Strand
Chairman, DCT's COMIREX Committee

P R O G R A M

0900 - 0930 **IMAGERY COLLECTION AND PROCESSING SYSTEMS**
Mr. Frank J. Ruocco
Director
National Photographic Interpretation Center

0930 - 1000 **IMAGERY DISSEMINATION SYSTEMS**
Mr. Geoffrey Langsam *GLS*
Deputy Director
Collection and Imagery Activities
Defense Intelligence Agency

1000 - 1030 **HUMINT**
Mr. Thomas Twetten *Tom*
Associate Deputy Director for Operations
Central Intelligence Agency

1030 - 1050 **Break**

1050 - 1220 **INDUSTRY ROUNDTABLE**
All of the roundtable participants are members of industry with extensive experience in U.S. intelligence. They will exchange with attendees, their perspectives on a broad spectrum of concerns and uncertainties regarding future intelligence activities.

Moderator
Dr. Robert J. Hermann
Vice President, Science & Technology
United Technologies Corporation

Members
The Honorable E. C. "Pete" Aldridge, Jr.
President
McDonnell Douglas Electronic Systems Company

Mr. William Crowell
Vice President and Director
Command, Control, Communications and Intelligence Programs
Atlantic Aerospace Electronics Corporation

Mr. R. Evans Hineman
Vice President
The Analytic Sciences Corporation

The Honorable Donald C. Latham
President, C³I System Division
Lockheed Missiles & Space Company, Inc.

1220 - 1230 **CLOSING REMARKS**
The Honorable E. C. "Pete" Aldridge, Jr.
President, SASA

B I O G R A P H I E S



THE HONORABLE DUANE P. ANDREWS
 Mr. Andrews is the Assistant Secretary of Defense for Command, Control, Communications and Intelligence. His appointment dates from 20 November 1989. Commissioned a Second Lieutenant as a distinguished military graduate of the Air Force ROTC program, Mr. Andrews entered active duty in April 1967, and served until 1977 in assignments dealing with various intelligence analysis (including foreign command, control and communications systems) and resource/systems management positions at the Foreign Technology Division, Wright-Patterson AFB, Ohio; 20th Tactical Air Support Squadron, DaNang Air Base, Republic of Vietnam; and the Directorates of Operational Intelligence and Resource Management, Headquarters US Air Force, Washington, D.C.

In 1977, Mr. Andrews became a Professional Staff Member, Subcommittee on Program and Budget Authorization, House Permanent Select Committee on Intelligence as the principal reviewer for Department of Defense cryptologic, tactical intelligence and intelligence related activities including communications and computer security, electronic warfare, and strategic command, control and communications programs. In 1984, he became the principal program and budget reviewer for CIA programs and DOD cryptologic activities. Mr. Andrews holds a BS Degree from the University of Florida (1967) and a Masters Degree in Management and Administration from Central Michigan University (1974). His military awards include the Bronze Star Medal, two Meritorious Service Medals, Air Force Commendation Medal and Republic of Vietnam Cross of Gallantry.

GENERAL ALFRED M. GRAY, USMC
 General Gray is the Commandant of the Marine Corps. He enlisted in the Marine Corps in 1950 and early tours included service with 11th and 7th Marines, 1st Marine Division in Korea, and Headquarters Marine Corps, during which he saw service in Guantanamo Bay and Vietnam.



As a Major, General Gray joined the 12th Marines, 3rd Marine Division, Vietnam, in 1965, serving concurrently as regimental communications officer, regimental training officer, and artillery aerial observer. He commanded the Composite Artillery Battalion and U.S. Free World Forces at Gio Linh in April 1967; in September he was reassigned to the III Marine Amphibious Force in Da Nang where he commanded the 1st Radio Battalion elements throughout I Corps until February 1968. Following a brief tour in the United States, he returned to Vietnam in 1969 in conjunction with surveillance and reconnaissance matters.

After his Vietnam tour, General Gray served as Commanding Officer of the 1st Battalion, 2nd Marines; Battalion Landing Team 1/2; and 2nd Marines; the 4th Marines; and Camp Commander of Camp Hansen, Okinawa. While Commanding the 33rd Marine Amphibious Unit and Regimental Landing Team-4, and concurrently serving as Deputy commander, 9th Marine Amphibious Brigade, General Gray directed the Southeast Asia evacuation operations in 1975.

Advanced to Brigadier General in 1976, General Gray served as Commanding General, Landing Force Training Command, Atlantic, and the 4th Marine Amphibious Brigade. Promoted to Major General in 1980, he assumed command of the 2nd Marine Division, FMF, Atlantic in 1981. Following his promotion to Lieutenant General in 1984, he was assigned as Commanding General, FMF, Atlantic/Commanding General, II MAF, and Commanding General, FMF, Europe. General Gray was promoted to General and became Commandant on

B I O G R A P H I E S



MR. ROBERT L. FOORD

Mr. Foord is the Director of Scientific and Weapons Research, Central Intelligence Agency.

He graduated from the United States Naval Academy in 1961 and entered immediately on active duty serving with the U.S. Pacific Fleet as a Weapons Officer and Operations Officer. In 1965, he resigned from active duty with the Navy and entered the CIA Career Development Program after which in 1967 he became an analyst in the agency's Ballistic Missile Systems Branch. He assumed the post of Chief of the branch in 1973, remaining there until 1977 when he was appointed to head the Offensive and Space Systems Division. In 1979, Mr. Foord became the Chief, Naval Systems Division and was designated as the CIA representative to the Weapons and Space Systems Intelligence Committee. He was appointed as Chief of the Science and Technology Division in 1981 and the Chairman of the Scientific and Technical Intelligence Committee remaining in those posts until 1984 when he became the Deputy Director of the Office of Scientific and Weapons Research.

In 1988, he was transferred to the Staff of the CIA Inspector General. Mr. Foord was reassigned to the Office of Scientific and Weapons Research as its Director, in 1989.

THE HONORABLE MARTIN C. FAGA

Mr. Faga is Assistant Secretary of the Air Force for Space. He is responsible for overall supervision of Air Force space matters, with primary emphasis on policy, strategy and planning. He advises the Secretary and the Chief of Staff on space policies, plans, programs, budgets and operations. He develops broad goals, policies and guidance for USAF space programs, and ensures comprehensive, integrated planning of those activities. Mr. Faga serves as the focal point for DOD and interagency matters concerning program and policy interactions involving the Air Force. This includes maintaining cooperative relations with the other military services, NASA, and the Executive departments responsible for commercial space activities. He assumed his present position in September 1989.

Mr. Faga was commissioned as a Second Lieutenant, USAF through the R.O.T.C. program. He was an R&D officer in the Air Force from 1963 to 1968, working in the field of infrared reconnaissance and the application of laser technology to reconnaissance. He worked briefly for the Perkin-Elmer Corp. before joining The MITRE Corp. in 1969 as a member of the technical staff, working in the field of remote sensors.

In 1972, Mr. Faga joined the Central Intelligence Agency, working on advanced technical systems for intelligence collection. He became a member of the professional staff of the Permanent Select Committee on Intelligence, U.S. House of Representatives in 1977, assigned to the Program and Budget Authorization Subcommittee. In 1984, he became head of the subcommittee staff. His responsibilities included staff oversight of technical collection programs and coordination of all subcommittee work.

Mr. Faga holds a BS Degree (1963) and an MS Degree (1964) both in Electrical Engineering from Lehigh University.



B I O G R A P H I E S



MR. JOHN P. DEVINE

Mr. Devine is the Chief of Staff, National Security Agency.

Prior to assuming his current position, Mr. Devine was Deputy Director for Plans and Policy, NSA, from July 1987 to March 1989. He served as Assistant Deputy Director for Research and Engineering (Systems Acquisition) from July 1986 to July 1987; as Assistant Deputy Director for Plans and Policy from January to July 1986 and as Director of Plans, Plans and Policy Organization, 1984 to 1986.

Mr. Devine was Chief of the Joint Programs Group in the Research and Engineering Organization during 1983-84 and managed the development of a major NSA program from 1979 until 1983. Mr. Devine entered employment with NSA in 1960 as a design engineer and later served in a number of system engineering and program management positions. He held a field assignment in Germany between 1966-68.

Mr. Devine was awarded the Presidential Rank Award of Meritorious Executive in 1983. He received the NSA Exceptional Civilian Service Award in 1984 and the Presidential Rank Award of Distinguished Executive in 1989.

Mr. Devine holds a BS Degree in Electrical Engineering from Villanova University (1960) and performed graduate studies at Catholic University (1960-1964).

COLONEL GERALD F. CUSTIN, USAF

Colonel Custin is the Deputy Chief, Office of ELINT, National Security Agency.

He was commissioned in March 1963 and was assigned to undergraduate navigation training. He completed training as an Electronic Warfare (EW) Officer in October 1964.

From November 1964 until mid-1967, he was assigned as an EW Officer at the 4713th Defense System Evaluation Squadron at Stewart AFB, New York.

In 1968, he was assigned to the 41st Tactical Electronic Warfare Squadron, Takhli RTAFB, Thailand. During this tour, he flew EB-66B/C/E aircraft and completed over 130 sorties. He was next assigned to the 7405 Support Squadron, Wiesbaden flying special air missions in C-97 aircraft. In May 1970, he was reassigned to HQ USAF Intelligence until mid-1973 when he was assigned to NSA. In 1975, he attended ACSC, Maxwell AFB, Alabama and upon graduation assigned to HQ Allied Air Force Southern Europe, Naples, Italy.

He completed the Air War College in 1981 and was assigned to Electronic Security Command, Kelly AFB, Texas where he served as Chief, Exploitation Division within the Directorate of Offensive Operations through December 1982. In January 1983, Colonel Custin was assigned to Ramstein AB, Germany with Headquarters Electronic Security Division, Europe, and served as Director of Operations and Plans. In April 1984, he was reassigned as the Commander, European Defense Analysis Center, Stuttgart, Germany.

Colonel Custin holds a Bachelor's Degree in Political Science from St. Joseph's College (1962) and an MA Degree in Counseling from Ball State University (1972).



B I O G R A P H I E S



MR. MORRIS B. LEVINE

Mr. Levine is Chief, Office of Technical Support, NSA.

Until June 1988, Mr. Levine was Deputy Director RAMPAGE Special Program Office and Senior DDO representative to the SPO. The SPO was an integrated DDR/DDO/DDT organization established to deliver the next generation of advanced resources processing systems. During 1986-87, he was Chief of a joint NSA-Intelligence Community organization directing the operational use of national resources. From 1983 to 1986, he was Chief of the Advanced Systems Planning organization in the Operations Directorate. In 1980-83, he served as Deputy Chief of Operations at a major overseas facility. During the period 1976 to 1980, Mr. Levine was assigned to an NSA Operations Group staff, where he directed planning for a major new system upgrade. From 1962 to 1976, Mr. Levine served in a variety of assignments, both in the Air Force until 1967 and as a civilian thereafter. His career includes two years in industry, from 1968 to 1970.

Mr. Levine holds a BA Degree in Russian Studies from the University of Missouri (1962) and an MS Degree in Systems Management from the University of Southern California (1967).

MR. DAVID L. AUSTIN

Mr. Austin is the Assistant Deputy Director, T&CS (Technology), National Security Agency.

Prior to his present post which he assumed in 1989, Mr. Austin was the Chief of the office responsible for Automatic Data Processing and Communications Plans and Project Development within the National Security Agency.

Before joining NSA, Mr. Austin was an Electronic Engineer with General Electric with ADP development responsibilities for a large missile tracking and guidance project.

Mr. Austin holds an MS Degree in Electronic Engineering from Syracuse University and has performed graduate studies in communications and computer design at George Washington University.

He received the DCI National Intelligence Medal of Achievement and the Meritorious Executive Achievement in the Senior Cryptologic Executive Service, a Presidential Rank Award in 1984.



B I O G R A P H I E S



MR. ALVIN S. BALES

Mr. Bales was appointed Vice Chairman of the DCI's Measurement and Signature Intelligence (MASINT) Committee in October 1989.

Prior to his current assignment, he served as Deputy Chief, SDIO Support Branch, in the DIA's recently formed Weapons Acquisition Support Office.

Mr. Bales first joined the DIA as a naval analyst in 1977. In 1981, he accepted a rotational assignment with the Directorate for Collections, DIA, which led to a progression of collection management assignments all relating to improved national intelligence support to operational commanders.

Mr. Bales served as a regular naval officer during the period 1966 to 1977. His early fleet assignments included: Heavy Photographic Squadron Six Two: CINCUSNAVEUR, and Carrier Division Six. Following a brief shore assignment with the Defense Intelligence Agency, he was reassigned to Southeast Asia in 1974-75 as Senior Vietnam Analyst, Commander, United States Support Activities Group (formerly MACV). His duties involved current intelligence analysis and threat analysis support to the Joint Casualty Resolution Center and Special Operations Forces. Mr. Bales returned to CONUS as the Operations and Requirements Officer for the Navy's Task Force 157. He left active naval service in 1977 but remains active in the naval reserve.

Mr. Bales holds a BS Degree in Experimental Psychology from the University of Georgia (1966). He was awarded an MA Degree in Organizational Psychology by George Mason University in 1983.

MR. WAYNE T. STRAND

Mr. Strand is Chairman of the DCI's Committee on Imagery Requirements and Exploitation (COMIREX).

Mr. Strand joined the CIA in 1963 and during his first two years was assigned to the National Photographic Interpretation Center. In 1965 he returned to his parent organization, the forerunner of the Office of Imagery Analysis, to work Warsaw Pact Ground Forces. Mr. Strand moved into the first of his management positions in 1967 as Chief of the Ground Forces Branch. During the next ten years he was assigned to different, increasingly responsible management positions within the Office of Imagery Analysis. In 1977, he was designated as Deputy Director of the office and in 1980 was appointed as Director of the office. In 1985, Mr. Strand entered an academic year in the State Department Senior Seminar. He returned from the seminar in May 1986 to assume his current position as Chairman, COMIREX.

Mr. Strand was awarded the Certificate of Distinction in 1969 for his work in developing new innovative methods to analyze Soviet and Chinese ground forces from imagery. He received the CIA Meritorious Officer Award in 1985 and the CIA Distinguished Officer Award in 1989.

He holds a Bachelor's Degree in Geography from Carroll College (1960) and a Master's Degree in Geography and Geology from Michigan State University (1963).



B I O G R A P H I E S



MR. FRANK J. RUOCCO

Mr. Ruocco is the Director of the National Photographic Interpretation Center.

He was commissioned in the U.S. Navy in 1961 and thereafter served for three years with the Naval Security Group in Charleston, South Carolina.

Mr. Ruocco joined the Central Intelligence Agency in 1965 and served in the Office of Strategic Research (OSR) and its predecessor organization until 1980. He completed the Naval War College in 1975 and upon his return to the Agency was appointed a Branch Chief in OSR, a Deputy Division Chief in April 1978 and a Division Chief in May 1979.

Mr. Ruocco was named Deputy Director of Imagery Analysis in May 1980. In November 1982, he became Chief, Collection Requirements and Evaluation Staff. He was appointed Director of Central Reference in February 1985 and in June 1986 became the Director of the newly formed Office of Information Resources. He assumed his present post as Director of the National Photographic Interpretation Center in February 1988.

Mr. Ruocco holds a BA Degree in Economics from St. Peter's College, New Jersey (1961).

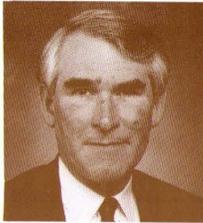
MR. GEOFFREY H. LANGSAM

Mr. Langsam is the Deputy Director for Collection and Imagery Activities, Defense Intelligence Agency.

He joined DIA in 1964. Subsequently, from April 1971 until October 1972, he was designated a Supervisory Intelligence Operations Specialist in the Exploitation Branch, Imagery Division, Directorate for Collection and Surveillance. From October 1972 through June 1980, he served as a Supervisory Intelligence Specialist in the Exploitation Management Branch of the Imagery Division of the Directorate for Collection.

In June 1980, he became a Supervisory Intelligence Research Specialist in the Imagery Analysis Division of the Directorate for Research, and in March 1982, he was designated Chief of the Imagery Analysis Division where he remained until January 1986 at which time he was appointed Assistant Deputy Director for Imagery Exploitation in the Directorate for Foreign Intelligence. He assumed his present post in December 1988.

Mr. Langsam holds a Bachelor's Degree in History from Gettysburg College (1959). He attended the Industrial College of the Armed Forces (1977-78).



B I O G R A P H I E S



DR. ROBERT J. HERMANN

Dr. Hermann was elected Vice President, Science and Technology, United Technologies Corporation in March, 1987. In this position, Dr. Hermann is responsible for assuring the development of the company's technical resources and the full exploitation of science and technology by the corporation. He also has responsibility for the United Technologies Research Center and the United Technologies Microelectronics Center.

Previously he had been the Vice President-Systems Technology and Analysis in UTC's Defense and Space Systems Group. Dr. Hermann joined the company in 1982 as Vice President, Systems Technology, in the Electronics Sector. He was named Vice President-Advanced Systems, Defense Systems Group in 1984.

Dr. Hermann served 20 years with the National Security Agency with assignments in Research and Development, Operations, and NATO. In 1977, he was appointed Principal Deputy Assistant Secretary of Defense for Communications, Command, Control and Intelligence. He was named Assistant Secretary of the Air Force for Research, Development and Logistics in 1979, and Special Assistant for Intelligence to the Under Secretary of Defense for Research and Engineering in 1981.

He holds B.S., M.S. and Ph.D. Degrees in Electrical Engineering from Iowa State University. Dr. Hermann is a member of the National Academy of Engineering, the Defense Science Board, the National Society of Professional Engineers' Industry Advisory Group, and Chairman of the Naval Studies Board. He served as President, SASA, 1983-86.

MR. R. EVANS HINEMAN

Mr. Hineman is Vice President of The Analytic Sciences Corporation.

From 1956-1958, Mr. Hineman served as a Technical Intelligence Officer with the Army Ordnance Corps. Following his military service, Mr. Hineman was employed as a Mechanical Engineer with the Army Ordnance Technical Intelligence Agency in Arlington, Virginia, and in 1962 joined the Army Foreign Science and Technology Center as an Aerospace Engineer.

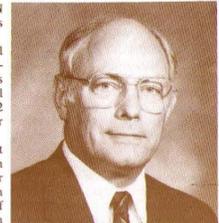
In 1964, Mr. Hineman joined CIA as a Physical Scientist assigned to the newly formed Trajectory Analysis Division of the Foreign Missile and Space Analysis Center (FMSAC). He held several responsible positions with FMSAC within the next nine years, including those of Chief of the Project Staff and Chief, Systems Division. In 1973, Mr. Hineman was appointed Deputy Director of Weapons Intelligence, a position which he held until June 1976 at which time he was appointed Director of Weapons Intelligence.

In October 1979, Mr. Hineman became Deputy Director, National Foreign Assessment Center, and remained in that post until January 1982 when, after a complete reorganization of NFAC, he became Associate Deputy Director of Intelligence.

Mr. Hineman was the CIA member to the Guided Missile and Astronautics Intelligence Committee (GMAIC) of USIB from 1967-1972. In June 1972, he became Chairman of GMAIC until January 1976 when he was appointed Chairman of the Weapon and Space Systems Intelligence Committee, a newly formed DCI committee. He continued as Chairman of WSSIC until October 1979 when he became Deputy Director, NFAC.

In July 1982, Mr. Hineman was appointed Deputy Director for Science and Technology and remained in that post until he retired from CIA in August 1989.

Mr. Hineman holds a B.S. Degree in Mechanical Engineering from Lafayette College (1956).



B I O G R A P H I E S



MR. WILLIAM P. CROWELL

Mr. Crowell is Vice President and Director of Command, Control, Communications and Intelligence Programs, Atlantic Aerospace Electronics Corporation.

Until November 1989, Mr. Crowell was a member of the National Security Agency where he had served since 1962. Prior to leaving NSA, he was Deputy Director for Programs and Resources.

Mr. Crowell was Chief of NSA's largest analytic group within the Operations Directorate from June 1983 to April 1988. During this assignment, Mr. Crowell was a member of numerous senior advisory panels within the Intelligence Community and the CNO Advanced Technology Panel.

From November 1983 to June 1985, he served as Chief of the Operations Group principally responsible for all Scientific and Technical Intelligence within NSA. He was

Assistant Deputy Director for Administration from January 1982 to November 1983, and served as Deputy Chief (and Acting Chief) of a major Research and Development Group from August 1980 to January 1982.

Mr. Crowell was the Chairman of the Collection Support Requirements Subcommittee of the Joint Strategic Target Planning Staff (JSTPS) Scientific Advisory Group (SAG) in which he served for three years. Recently, he was an advisor to the Defense Science Board Task Force on U.S. Strategic Weapons Modernization Program and is presently serving on the DNI Consultants Panel.

Mr. Crowell holds a BA in Political Science from Louisiana State University (1962). He attended George Washington University from 1962 to 1966, the Harvard University Program for Senior Executives in National and International Security Affairs in 1985, and the Harvard University Programs Defense Policy Seminar in June of 1988.

THE HONORABLE EDWARD C. ALDRIDGE, JR.

Mr. Aldridge is the President of McDonnell Douglas Electronic Systems Company (MDESC).

He was the Secretary of the Air Force from June 1986 until December 1988. Previously, from 1981 to 1986, he served as the Under Secretary of the Air Force. In addition to his management responsibilities in this position, he provided overall direction, guidance and supervision for Air Force space programs.

Prior to joining the Department of Defense initially in 1967, Mr. Aldridge held various staff and management positions with Douglas Aircraft Co., Missile and Space Division, in Santa Monica, CA and in Washington, D.C.

In 1967, he joined the staff of the Assistant Secretary of Defense for Systems Analysis as an operations research analyst and then served as Director of the Strategic Defense Division until 1972.

He re-entered private industry in 1972 as a senior manager with LTV Aerospace Corp. in Dallas for a year until he was named senior management associate in the Office of Management and Budget.

Returning to the Department of Defense in February 1974, Mr. Aldridge served as Deputy Assistant Secretary of Defense for Strategic Programs until March 1976 when he was appointed, Director, Planning and Evaluation, a principal adviser to the Secretary of Defense in the planning and program evaluation of U.S. military forces and support structure.

He was named Vice President, National Policy and Strategic Systems Group for the System Planning Corporation, Arlington, VA, in March 1977 and remained with SPC until 1981.

Mr. Aldridge holds a B.S. Degree in Aeronautical Engineering, Texas A&M University (1960) and an M.S. Degree in Aeronautical Engineering, Georgia Institute of Technology (1962).



B I O G R A P H I E S



THE HONORABLE DONALD C. LATHAM

Mr. Latham is President C/I Division, Lockheed Missiles and Space Company. Prior to his current position he was Vice President, Systems Group, Computer Sciences Corporation. Mr. Latham served as the Assistant Secretary of Defense C/I from August 1984 until July 1987. Previously he had served as the Deputy Under Secretary of Defense C/I from July 1981. Prior to his Pentagon assignments, he was Division Vice President, Engineering, RCA Government Systems Division, since December 1978. Before joining RCA, Mr. Latham was Director, Research and Engineering, for Martin Marietta Aerospace, Orlando, Florida.

Starting as a member of the technical staff at Martin Marietta Aerospace in Baltimore in 1963, Mr. Latham was transferred to the Orlando Division in 1965 and promoted to Manager, Advanced Programs. In 1968, he became Manager, Air and Ballistic Missile Defense Systems at the Orlando Facility.

In 1971, he left Martin Marietta to become Chief-Engineering Staff, of the NSA European Headquarters. In 1974, NSA appointed Mr. Latham as Deputy Chief, Office of Microwave Space and Mobile Systems. In January 1977, he accepted the Research and Engineering directorship at Martin Marietta.

As an Air Force officer, Mr. Latham was assigned to research and development activities at NSA from 1957 to 1959.

Mr. Latham holds a B.S. Degree in Electrical Engineering from The Citadel (1955). He was awarded an M.S. Degree in Electrical Engineering and an advanced Electrical Engineering Degree from the University of Arizona in 1957 and 1965, respectively.



(See next page for additional Biographies)

B I O G R A P H I E S

MS. MICHELLE K. VAN CLEAVE

Ms. Van Cleave was reappointed Assistant Director for National Security Affairs and Counsel, White House Office of Science and Technology Policy, on 1 October 1989--positions she had held from August 1987 through February 1989. Prior to rejoining OSTP, Ms. Van Cleave served as Republican Counsel to the Committee on Science, Space, and Technology, U.S. House of Representatives.

From 1981 through July 1987, Ms. Van Cleave was Assistant for Defense and Foreign Policy to Congressman Jack Kemp (R-NY), serving concurrently as National Security Assistant to the House Republican Conference and Associate Staff Member, House Appropriations Subcommittee on Foreign Operations.

Ms. Van Cleave was Coordinator and Staff Attorney in the Office of the General Counsel, 1981 Presidential Inaugural Committee, and assisted in the work of the Department of Defense Transition Team Office of President-elect Reagan 1980. At the Republican Convention in 1984, Ms. Van Cleave was a member of the Platform Committee Staff, with responsibility for foreign policy.

Ms. Van Cleave has served as a member of the Board of Advisors, Center for Security Policy, and as consultant to the Heritage Foundation, the Fund for an American Renaissance, and the American Security Council. She also served as a Congressional Staff Advisor to the U.S. delegation to the United Nations Second Special Session on Disarmament.

Ms. Van Cleave holds B.A. and M.A. Degrees in International Relations from the University of Southern California and a J.D. from the U.S.C. School of Law. She is a member of the State Bar of California.

MR. KARL W. RUYLE

Mr. Ruyle is the Deputy Chief, DCI's Counterterrorist Center.

He joined the Central Intelligence Agency in 1967 through the agency's Career Training Program and since that time has had numerous positions within the Directorate of Intelligence. His many assignments included, Chief, Arab-Israeli Division; Chief, Persian Gulf Division; and Chief, Product Evaluation Staff.

In 1986, Mr. Ruyle was designated Vice Chairman of the DCI's SIGINT Committee and in 1989, he became Deputy Chief of the DCI's Counterterrorist Center, a post he presently holds.

MR. THOMAS A. TWETTEN

Mr. Twetten is the Associate Deputy Director for Operations, Central Intelligence Agency. Mr. Twetten entered U.S. Government service in 1961. He was appointed to his present position in June 1988.

He has served overseas for 19 years to include tours in Nigeria, Libya, Ghana, India and Jordan.

Mr. Twetten holds a B.S. Degree in Psychology from Iowa State University (1957) and an M.A. Degree in International Affairs from Columbia University (1961).

(No Photo Available)



SASA is pleased to note the attendance of individuals from the following organizations. . .

- Aerojet Electro Systems
- *AIL Systems, Inc.
- Air Force Electronic Security Command
- American Nuclonics Corporation
- American Systems Corporation
- Ampex Corporation
- Analytics, Inc.
- *ARC Professional Services Group
- ARGOSystems, Inc.
- Assistant Secretary of Air Force (Space)
- Assistant Secretary of Defense C3I
- AT&T Federal Systems
- Atlantic Aerospace & Electronics Corp.
- Autometric, Inc.
- Ball Aerospace Systems Group
- BDM International, Inc.
- *Betc Corporation
- *Boeing Aerospace Company
- Bolt, Beranek & Newman, Inc.
- *Booz, Allen & Hamilton, Inc.
- *BTG, Inc.
- *California Microwave, Inc.
- Central Intelligence Agency
- Codem Systems, Inc.
- Communications Systems Technology, Inc.
- *Computer Sciences Corporation
- Comsat Corporation
- *CONTEL Federal Systems, Inc.
- *Control Data Corporation
- *Cray Research, Inc.
- *Dan Hearn, Consultant
- *Datatape, Inc.
- *DBA Systems, Inc.
- DCI's COMIREX Committee
- DCI's MASINT Committee
- Defense Communications Agency
- Defense Intelligence Agency

Department of State
DGM&S, Inc.
*Digital Equipment Corporation
Digital Signal Corporation
DoD Security Institute
E-Systems, Inc. - CAPA
*E Systems, Inc. - Garland Division
*E-Systems, Inc. - Melpar Division
Eastman Kodak Company
Electrospace Systems, Inc.
Engineering Research Associates
Eos Technologies, Inc.
*ESL, Inc.
*Essex Corporation
*Fairchild Communications & Electronics Co.
Federal Emergency Management Agency
*Ford Aerospace & Communications Corporation
GE Aerospace
*General Dynamics Electronics Division
*General Electric Company Space Systems Division
Geo-Com., Inc.
Goldberg Computer Consultants, Inc.
Grumman Space Systems Division
*GTE Government Systems Corporation
*Harris Corporation
Harvard University
House Permanent Select Committee for Intelligence
*HRB Systems, Inc.
Hughes Aircraft Co., GSG
Hughes Aircraft Co. Elec. - Opt. & Data Systems
*Hughes Aircraft Company - Washington Office
*Hughes Danbury Optical Systems, Inc.
Hughes Research Laboratories
Hull & Company
*IBM Corporation
Ideas, Inc.
Intelligence Community Staff
International Imaging Systems, Inc.
JAYCOR
Jet Propulsion Laboratory

Joseph R. Lucas & Company
LDF, Inc.
*Litton Itek Optical Systems
Lockheed Corporation
*Lockheed Missiles & Space Company, Inc.
Lockheed Sanders, Inc.
*Logicon, Inc.
*Loral Electronics Systems
*LTV Missiles & Electronics Group
Magnavox Electronics Systems, Inc.
*Martin Marietta Corporation
Martin Marietta Information Systems Group
*Martin Marietta Space Systems Company, Inc.
Maxim Technologies, Inc. - Consultant
*McDonnell Douglas Electronic Systems Company
*Mirage Systems
MK-Ferguson Company
*Motorola Strategic Electronics Division
*MRJ, Inc.
National Security Agency
NPIC
Office of Management & Budget
Orincon Corporation
Pacific-Sierra Research Corporation
PAR Government Systems Corporation
Perlstein Associates, Ltd.
Petite Research Group, Inc.
PFIAB
*PRC Government Information Systems
Quality Systems, Inc.
QuesTech, Inc.
R&D Associates, Inc.
Raymond Tate Associates, Inc.
SAIC Comsystems Division
*SAIC Systems Technology Group
*Scitor Corporation
Scope, Incorporated
SEDC
*Space Applications Corporation
SRI International

Strategic Planning & Development, Inc.
Sumner Group, Inc.
Systems Planning Corporation
Systems Research Laboratories
TAPA, Inc.

*Technology for Communications International

*The Analytic Sciences Corporation
The Charles Stark Draper Lab, Inc.
The Marek Enterprise

*The MITRE Corporation

The MVM Group, Inc.
Titan Corporation
Tracor Elsin

TRW Avionics & Surveillance Group

TRW Electronic Systems Group

TRW Space & Defense Sector

TRW Space & Technologies Group

*TRW Systems Integration Group

TSC, Inc.

*Ultrasystems Defense & Space Systems, Inc.

Unisys Defense Systems
United States Marine Corps

*United Technologies Corporation

*United Technologies Norden Systems, Inc.

United Technologies Research Center

*Vitro Corporation

Wang Laboratories, Inc.
Watkins-Johnson Company
Westinghouse Electric Corporation
Xerox Corporation
3M Federal Systems Department

* SASA Sponsors

SASA Officers and Board of Directors

President

E. C. "Pete" Aldridge, Jr. *President,*
McDonnell Douglas Electronic Systems Co.

Executive Vice President

John E. Morrison, Jr.

Secretary/Treasurer

William H. Parsons

General Counsel

Daniel B. Silver, Esq., *Cleary, Gottlieb, Steen & Hamilton*

Chairman of the Board

Mercade A. Cramer, *President & CEO, Vitro Corp.*

Members

Maynard C. Anderson, *Assistant Deputy Under Secretary of Defense*
Counterintelligence & Security

M. Sam Araki, *Executive Vice President, Plans & Programs,*
Lockheed Missiles, Space & Electronic Systems Group

Mellon C. Baird, *Tracor, Inc.*

Charles Barron, *President, ALL Systems, Inc.*

C. James Dorrenbacher, *President & CEO,*

McDonnell Douglas Space Systems Co.

Russell W. Frame, *President, DATATAPE Incorporated*

Penman R. Gilliam, *Deputy Director, Management & Technology,*
Defense Mapping Agency

Charles A. Hawkins, *Deputy Assistant Secretary of Defense*
(Intelligence)

Lt. Gen. Edward J. Heinz, USAF, (Ret.)

Mark V. Hughes, III, *Senior Vice President & General Manager,*
Planning Research Corporation, DSSD

Robert J. Kohler, *Vice President & General Manager*
TRW-Avionics & Surveillance Group

James W. McAnally, *President, Martin Marietta Space Systems*

Lt. Gen. Harry E. Soyster, USA, *Director, Defense Intelligence Agency*

Vice Adm. William O. Studeman, USN, *Director, National Security Agency*

Kenneth R. Swimm, *General Manager, Military & Data Systems Opns.,*
General Electric Company

ABOUT THE ASSOCIATION . . .

The Security Affairs Support Association (SASA) is chartered as a professional association by the State of Maryland. It was established in April 1979 to "enhance the relationships and understanding among those in government, industry and academe who are involved in and concerned with the well-being and success of the national intelligence endeavor".

In the eleven years which have passed since its creation, SASA has become an active and useful force in the Intelligence Community. Satisfying a communications need long felt in the community, issues of interest to government and industry alike have been discussed in its forum. Key policy, operational and administrative issues of legitimate concern to its membership are being continually explored.

In 1984, SASA inaugurated its award program when the DCI presented the SASA Medal of Achievement to Dr. William Oliver Baker "for his enduring contributions to National Security and Freedom". The medal is now designated the William Oliver Baker Award and is presented annually to an individual from government, industry, or academe who has performed distinguished service in support of the national intelligence endeavor. Senator Barry Goldwater received the award in 1985, Ambassador Vernon Walters, 1986; Ambassador Richard Helms, 1987; Dr. Edwin Land, 1988; and Admiral Bobby R. Inman, 1989.

SASA continues to pursue its objective of "enhancing relationships and understanding" among all who support the national intelligence endeavor, through a series of symposia on topics of high current interest which have included, TACTICAL INTELLIGENCE and RELATED ACTIVITIES (TIARA)**SOFTWARE TRENDS in the INTELLIGENCE COMMUNITY**INTELLIGENCE SUPPORT to NATO**INFOSEC FOR THE NINETIES**SECURITY TRENDS and IMPACTS**TECHNOLOGY SECURITY**MANAGING CHANGE**TECHNOLOGY SHORTFALLS IN INTELLIGENCE ARCHITECTURES**GLASNOST and PERESTROIKA—IMPLICATIONS FOR U.S. INTELLIGENCE**TREATY MONITORING AND VERIFICATION—IMPLICATIONS FOR U. S. INTELLIGENCE**EUROPE '92.

In January, 1987, SASA implemented its Security Support Program. Under this program, SASA is now prepared to receive from its members, on a non-attribution basis, generic unclassified industrial security issues and problems for appropriate action.

SASA is a non-profit organization operated by its members through an elected Board of Directors and Officers who manage its affairs and programs in accordance with its by-laws. The activities of the association, and other topics of interest to the Intelligence Community are reported in its newsletter--COLLOQUY.

"On reviewing the SASA's plans for their 1990 events, the Assistant Secretary of Defense (Public Affairs) finds these events meet the standards for participation by DoD personnel under DoD Instruction 5500.7. This finding does not constitute DoD endorsement of attendance which must be determined by each DoD component."



Security Affairs Support Association

SASA is headquartered in Annapolis, Maryland
Requests for additional information by telephone or mail are welcomed.

Security Affairs Support Association
Suite 120, 2662 Riva Road
Annapolis, Maryland 21401
(301) 841-6555
FAX (301) 266-7554