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The 1988 Team

David Brant

David Brant is a Technical/Design Manager at Gates Learjet Corporation. Mr. Brant received a B.S. in Aeronautical Technology from Arizona State University in 1974 and did M.B.A. work at Florida State University from 1982-1984. From 1974 to 1980 he served as a Design Engineer and Flight Test Engineer at Cessna Aircraft Company. Mr. Brant joined the Piper Aircraft Corporation as an Experimental Test Pilot in 1980. He became the Chief of Engineering Flight Test at Piper in 1982. He joined Gates Learjet in 1984 where he is currently responsible for managing the technical and experimental activities of the Avanti program. Mr. Brant is a Member of the Society of Experimental Test Pilots and the AIAA.

Inderjit Chopra

Inderjit Chopra is a Professor of Aerospace Engineering at the University of Maryland. He received a B.Sc. in Engineering from Punjab Engineering College, Chandigarh, India, in 1965; an M.E. from Indian Institute of Science, Bangalore, India, in 1968; and a Sc.D. from Massachusetts Institute of Technology in 1977. He worked at the National Aeronautical Laboratory in Bangalore from 1966 to 1974. His research there included aeroelastic wind tunnel testing of scaled models of airplanes and launch vehicles. At MIT, he worked on aeroelastic analyses of wind turbine rotors for his doctoral dissertation. In 1977, he joined NASA Ames/Stanford University Joint Institute of Aeronautics and Acoustics, where he researched aeroelastic analyses of advanced rotor systems and dynamic testing of fullscale helicopters in the Ames 40×80 ft. wind tunnel. In 1981, he joined the University of Maryland. He is a major participant of the Army's Center of Rotorcraft Education and Research at Maryland. An author of over 60 articles and papers, Dr. Chopra is also an associate editor of the Journal of the American Helicopter Society and a member of the editorial advisory board of Vertica, The International Journal of Rotorcraft and Powered Lift Aircraft. He is an Associate Fellow of AIAA.

Robert D. Cuthbertson

Robert D. Cuthbertson is Manager of Noise Technology for Advanced Programs with the Boeing Commercial Airplane Company. He received a B.Sc. in Mechanical/Aeronautical Engineering from the University of Wyoming in 1965 and studied fluid mechanics and turbulence on the post-graduate level at the University of Washington. He began his career with the propulsion staff at Boeing and began work on the SST program. Following his graduate studies, he became part of Boeing's Noise Technology Staff and worked on development of the 747. His work eventually led to recognition of the blow-in-door type inlet as a major noise problem of these jets. Cuthbertson was then lead engineer for an R&D project providing technology for the development of the 747. From 1975 to 1977, he supervised research programs in turbomachinery noise and acoustic lining technology. In 1978, he became Chief of Noise Technology Integration and Computing. His current responsibilities include all aspects of community and cabin noise technology of Boeing's future aircraft, such as the 7J7 and supersonic cruise transports.

Robert E. Duffy

Robert E. Duffy is an Associate Professor of Aeronautical Engineering and Astronautics at Rensselaer Polytechnic Institute. Dr. Duffy received his degrees from Rensselaer. He has worked as an aeronautical engineer at Wright-Patterson Air Force Base, as a research engineer at Grumman Aerospace Corporation, and as a consultant to numerous corporations. He is currently the technical director of Panaflight Corporation. His professional society affiliations include membership in the American Helicopter Society, the American Society of Mechanical Engineers, and the AIAA, in which he is an Associate Fellow. An author of over 45 articles and papers, Professor Duffy is currently investigating nonsteady flow effects on the aerodynamic characteristics of rotorcraft as a member of the ARO Rotocraft Center of Excellence at Rensselaer.

Franklin E. Eastep

Franklin E. Eastep is a Professor and Director of Aerospace Engineering at the University of Dayton. He received a B.S. from Ohio State University in 1958, an M.S. from the Air Force Institute of Technology in 1963, and a Ph.D. from Stanford University in 1968. Dr. Eastep has been teaching and conducting research within the technical areas of structural dynamics, aeroelasticity, and unsteady aerodynamics since 1968. During this period, he has been the principal thesis advisor for 5 doctoral students and over 25 masters students. He served on active duty with the U.S. Air Force for 20 years, retiring in 1978. Dr. Eastep is a member of the American Academy of Mechanics, an Associate Fellow of the AIAA, and a member of the AIAA Structural Dynamics Technical Committee.

Lars E. Ericsson

Lars E. Ericsson is a Senior Consulting Engineer in the Engineering Technology Organization of Lockheed Missiles and Space Corporation, Inc., Sunnyvale, California, where he acts as a consultant to the Satellite and Missile Systems Divisions on problems associated with aeroelasticity and vehicle dynamics. Before joining Lockheed Aircraft Corporation in 1956, and LMSC in 1959, he was with the Aeronautical Research Institute of Sweden and the Swedish Aircraft Company, SAAB. Dr. Ericsson received his M.S. degree from the Royal Institute of Technology (KTH), Stockholm, in 1949, and his Ph.D. in 1972. He is a Fellow of the AIAA and is a member of the American Helicopter Society. Dr. Ericsson has published over 100 papers in his related fields.

Ronald A. Hess

Ronald A. Hess is a Professor in the Division of Aeronautical Science and Engineering of the Department of Mechanical Enginenering at the University of California, Davis. He received B.S., M.S., and Ph.D. degrees in aerospace engineering from the University of Cincinnati in 1965, 1967, and 1970, respectively. After completing his doctoral work, he joined the faculty of the Department of Aeronautics at the Naval Postgraduate School in Monterey, California. In 1976, Dr. Hess joined the staff in the Flight Systems Research Division of NASA Ames Research Center. At NASA, he conducted research in the areas of aircraft handling qualities, control/display and design, and manual control theory. In the fall of 1982, he assumed his present position at the University of California, Davis.

Dr. Hess' current research interests lie in the areas of automatic and manual control of aircraft. He is an Associate Fellow of the AIAA, Member of the IEEE and Sigma Xi, and an Associate Editor of the IEEE Transactions on Systems, Man and Cybernetics.

Harry H. Heyson

Harry H. Heyson earned his B.Ae.E., cum laude, at the Polytechnic Institute of Brooklyn in 1949. He received his M.S. in Aeronautical Engineering from Virginia Polytechnic Institute in 1958. He joined the staff of NACA's Langley Laboratory in 1949. His research at NACA and NASA has resulted in over 75 papers on the theoretical and experimental aspects of helicopter and V/STOL induced flowfields, ground effects and wind-tunnel wall effects, as well as on innovative new aircraft concepts. He is a frequent lecturer in university short courses and helicopter safety seminars.

Now retired from government service, Mr. Heyson is an Aerospace Consultant and an Associate at the Hampton, Virginia office of Eagle Engineering. He is an Associate Fellow of the AIAA and a member of the American Helicopter Society.

Kenneth J. Holt

Kenneth J. Holt is Senior Representative for Tactical Systems at Headquarters Tactical Air Command, McDonnell Aircraft Company. He received his B.Sc. from Hampton In-

stitute in Virginia, and his M.B.A. from the University of Missouri, St. Louis. He served 20 years as a Lieutenant Colonel with a Command Pilot Rating in the U.S. Air Force. His career included operational assignments as a pilot and radar intercept officer in Air Defense Command, Tactical Air Command, Air Training Command and Strategic Air Command. He has logged over 5,500 hours in such aircraft as the F-86, F100, and RB47. He joined McDonnell in 1973 and was responsible for the company's interface with the military for flight tests. He developed much of the flight operations coordinations for the F-18 and AV-8, and was the McDonnell consultant for establishing the Government Aircraft Factory F-18 operations facility at Avalon, Australia. He retired from active flying in 1984. Mr. Holt is a Member of the AIAA and serves on the Aircraft Operations Technical Committee.

Bellur L. Nagabhushan

Bellur L. Nagabhushan is a Senior Staff Engineer in the Bendix/King Air Transport Avionics Division of Allied-Signal Company. He received his B. Tech. degree in Aeronautical Engineering from Indian Institute of Technology, Madras, India, in 1971, and his M.S. and Ph.D. degrees in Aerospace Engineering from Virginia Polytechnic Institute and State University in 1973 and 1977.

From 1976 to 1987 he was with the Defense Systems Division of Goodyear Aerospace Corporation, where he focused on evolving conceptual and preliminary designs of conventional and V/STOL airships and hybrid rotorcraft configurations. He also served as a consulting engineer on projects related to aircraft systems design, performance analysis and flight simulator development. In his present work, he is involved in the development of Fly-By-Wire Systems for aircraft flight control.

Dr. Nagabhushan has authored over 40 technical papers and articles in archival journals. He holds patents in USA and Europe, and has received several Engineering Awards for Technical Achievement at Goodyear. He is an Associate Fellow of AIAA and a member of its V/STOL Aircraft Systems Technical Committee.

T. Y. Yang

Henry T. Y. Yang is a Professor in the School of Aeronautics and Astronautics and Dean of Engineering at Purdue University. He received his B.S. from National Taiwan University in 1962, his M.S. from West Virginia University in 1965, and his Ph.D. from Cornell University in 1968. He has been teaching and researching at Purdue since 1969. His areas of specialty are aircraft structures, dynamics, and materials. He has authored a book, 90 archival journal articles, and several dozen conference proceedings papers in these areas. He is a Fellow of AIAA.

Thomas M. Weeks

Thomas M. Weeks completed his degree work at Syracuse University, Department of Mechanical and Aerospace Engineering in 1965. He entered active commissioned service that year, assigned to the Air Force Flight Dynamics Lab at Wright-Patterson AFB, Ohio. He chose to work in the area of electrogasdynamics at the nearly completed 50 MW facility. In 1968, he separated from the Air Force but chose to remain at the same location working as a civilian.

He was assigned in 1972 to the Analysis Group attached to the Aeromechanics Staff working on transonic wind tunnel wall interference. In 1976, he became Tech Manager of the External Aerodynamics Group of the Aerodynamics and Airframe Branch. He is currently Chief of the Experimental Engineering Branch in the Flight Dynamics Laboratory of Air Force Wright Aeronautical Laboratories. Dr. Weeks is an Associate Fellow of the AIAA.