



Aug 1st, 12:00 AM

## About the Authors

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Canaveral Council of Technical Societies, "About the Authors" (August 1, 1963). *The Space Congress® Proceedings*. Paper 10. <http://commons.erau.edu/space-congress-proceedings/proceedings-1963/vol1-no1/10>

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# About the Authors

## 4 Operational Problems with Large Space Boosters



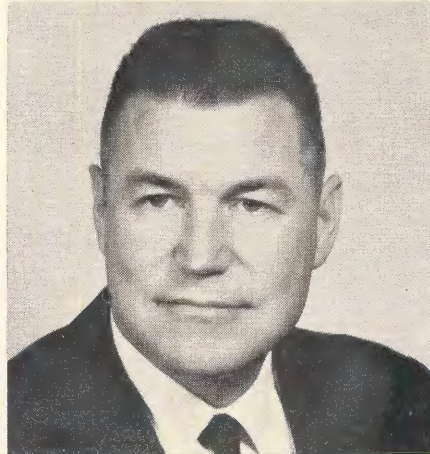
**R. C. Uddenberg** is the Manager of the Atlantic Booster Test Organization, of the Saturn Booster Branch of the Boeing Company. He is responsible for the Boeing test work with NASA on the Saturn S-IC.

Mr. Uddenberg received a B.S. degree in engineering from the University of California and an M.S. degree in engineering from M.I.T. in 1937. He joined the Boeing Airplane Company in 1940, after teaching at the University of California for two years and working for short periods at Lockheed and Douglas Aircraft companies.

Starting as an aero engineer, Mr. Uddenberg was later promoted to Senior Aerodynamicist and became a supervisor in 1947. He was associated with the GAPA program from 1945 to 1950 and with the BOMARC program from 1950 to 1961. During this time he also served for six months as assistant to the Chief Engineer of the Pilotless Aircraft Division, and was responsible for the aerodynamic design of both the GAPA and BOMARC missiles.

On the BOMARC program Mr. Uddenberg later served as Staff Engineer for the Flight Planning and Data Section and finally as Project Test Engineer - IM-99, with responsibility for the direction of the entire BOMARC flight test program.

He has been associated with the Boeing Saturn program in Seattle, Huntsville, and the Atlantic Missile Range since 1961.



**O. W. Clark** is the Test Engineering Chief for the Boeing Company, Atlantic Booster Test Organization. His prime responsibility is the Saturn V, S-IC Stage, at the Merritt Island Launch Area.

He has been employed by the Boeing Company since 1951, and has been actively engaged in various test programs. Before coming to the Atlantic Missile Range in 1954, Mr. Clark worked on B-47 aircraft and power plant performance flight testing.

Since 1954, Mr. Clark has spent five years in development testing of Bomarc nose electronics and ground guidance systems and two years as Minuteman Test Program Manager in planning, base activation, and missile assembly and test through the first launch. He also spent one year in Seattle planning the Dynasoar test program.

Mr. Clark received a B.S. degree in Aeronautical Engineering from the University of Florida in 1951.

## 10 Psychology through Space

**B. B. Nelson** is employed by the General Electric Company as a test engineer on the G. E. Mod III Radio Guidance System. For the past year he has been assigned to radio guidance system test planning for NASA Projects Mercury (MA-9), Ranger, and Mariner. He has also worked in airborne engineering, test conducting, field test engineering, and program support.

Mr. Nelson previously worked for the Collins Radio Company as a technical instructor and field engineer on communications and radio guidance equipment. At Cape Canaveral he worked with the Collins Drone Guidance System.



Mr. Nelson received a B.S. degree in electrical engineering from Arkansas Southern State College.

## 12 Construction of the Saturn Launch Facilities



**Colonel W. L. Starnes** is the Deputy Engineer (NASA), U. S. Army Corps of Engineers, Canaveral District. His background in heavy construction is quite extensive. He has been previously assigned as the Area Engineer at Thule Air Force Base, Greenland, in charge of construction of a Nike-Hercules site. He has also been responsible for beginning construction of the Ballistic Missile Early Warning site at Thule.

Colonel Starnes received a B.S. Degree from the U. S. Military Academy, an M. S. Degree from Massachusetts Institute of Technology, and an M. S. Degree from George Washington University. He has also attended Parachutist School, Command and General Staff College, and Industrial College of the Armed Forces.

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