

## AUTHOR INDEX

*Johns Hopkins APL Technical Digest*

Volume 17 (1996)

- Anderson DE, see Paxton LJ  
Axness TA, Coffman RV, Kopp BA, and O'Haver KW, Shared aperture technology development 17(3), 285–294.  
Balkcom GW, see Rapport ID  
Barbagallo MH, see Smola JF  
Bargeron CB, see Colvin AE  
Barnes VB, see Nordeen RD  
Bartschi BY, Morse DE, and Woolston TL, The Spatial Infrared Imaging Telescope III 17(2), 215–225.  
Berl WG, Chih Kung Jen—A remembrance 17(3), 330–332.  
Betenbaugh TM, see Skullney WE  
Bhatnagar V, see Seegar WS  
Boldt JD, see Heffernan KJ  
Burdick SV, Chalupa J, Hamilton CL, Murdock TL, and Russell R, MSX reference objects 17(2), 246–252.  
Burek RK, see Stott DD  
Bythrow PF, Air Force Programs at APL 17(1), 117–126.  
Chalupa J, see Burdick SV  
Chow JC, see Harrison DC  
Claussen ED, see Constantikes KT  
Coffman RV, see Axness TA  
Colvin AE Jr, Phillips TE, Miragliotta JA, Givens RB, and Bargeron CB, A novel solid-state oxygen sensor 17(4), 377–385.  
Conde RF, see Frank LJ  
Constantikes KT, Thomas ME, and Claussen ED, Diurnal variation of desert midwave infrared images 17(4), 357–361.  
Cranmer JH, see Smola JF  
Cranmer JH, Sanders JT Jr, Lesho JC, and Uy OM, Contamination control for the MSX: An overview 17(1), 88–101.  
Cutchis PN, see Seegar WS  
Darlington EH, see Heffernan KJ  
DeBoy CC, see Smola JF  
Eisenreich P, see Stott DD  
Folkerts JT, see Uy OM  
Frank LJ, Hersman CB, Williams SP, and Conde RF, The MSX tracking, attitude, and UVISI processors 17(2), 137–142.  
Fuller MR, see Seegar WS  
Gann RG, A comprehensive look at flame research 17(3), 325–326.  
Ginther MJ, see Uy OM  
Givens RB, see Colvin AE  
Good AC, see Nordeen RD  
Gopalan P, see Srinivasan R  
Goss ME, The MSX Performance Assurance Program 17(2), 189–197.  
Guilmain BD, see Mill JD  
Hamilton CL, see Burdick SV  
Harold MJ, see Skullney WE  
\_\_\_\_\_, see Smola JF  
Harris TJ, see Heffernan KJ  
Harrison DC, and Chow JC, The Space-Based Visible sensor 17(2), 226–236.  
Hartka TJ, see Skullney WE  
Harvey RJ, see Nordeen RD  
Heffernan KJ, Heiss JE, Boldt JD, Darlington EH, Peacock K, Harris TJ, and Mayr MJ, The UVISI instrument 17(2), 198–214.  
Heiss JE, see Heffernan KJ  
Hersman CB, see Frank LJ  
Huebschman RK, The MSX spacecraft system design 17(1), 41–48.  
Hyer SA, Johnston JJ, and Roe CL, Integration of the Evolved Seasparrrow Missile into ships of the NATO Seasparrrow consortium navies 17(3), 314–324.  
Jenkins JE, see Panneton PE  
Johnston JJ, see Hyer SA  
Joseph RI, see Thomas ME  
Kennedy LR, see Mobley FF  
Kopp BA, see Axness TA  
Krein JA, see Smola JF  
Krein JA, and Mehoke DS, The MSX thermal design 17(1), 49–58.  
Kreitz HM Jr, see Skullney WE  
\_\_\_\_\_, see Smola JF  
Kroutil JE, see Stott DD  
Lesho JC, see Cranmer JH  
Lombardo JS, Mihalak E, and Osborne SR, Collaborative virtual prototyping 17(3), 295–304.  
Maier-Tyler LL, Awards for publications and research and development 17(3), 327–329.  
Manthorpe, WHJ Jr, The emerging joint system of systems: A systems engineering challenge and opportunity for APL 17(3), 305–313.  
Masson BL, see Pfeiffer CG  
Mayr MJ, see Heffernan KJ  
Mehoke DS, see Krein JA  
Meng CI, see Paxton LJ  
Meyer JH, see Srinivasan R  
Mihalak E, see Lombardo JS  
Mill JD, and Guilmain BD, The MSX mission objectives 17(1), 4–10.  
Miragliotta JA, see Colvin AE  
\_\_\_\_\_, see Schuster PR  
Mobley FF, Radford WE, and Kennedy LR, MSX attitude determination and control hardware 17(2), 153–160.  
Morse DE, see Bartschi BY  
Murdock TL, see Burdick SV  
Myles-Tochko CJ, see Srinivasan R  
Nordeen RD, Barnes VB, Good AC, and Harvey RJ, The MSX flight operations system 17(1), 102–116.  
O'Haver KW, see Axness TA  
Osborne SR, see Lombardo JS  
Panneton PE, and Jenkins JE, The MSX spacecraft power subsystem 17(1), 77–87.  
Pardoe CT, Keeping the MSX on track 17(1), 35–40.  
Paxton LJ, Meng CI, Anderson DE, and Romick GJ, MSX—A multiuse space experiment 17(1), 19–34.  
Peacock K, see Heffernan KJ  
Persons DF, see Skullney WE  
Peterson MR, Midcourse Space Experiment: Guest Editor's introduction 17(1), 2–3.  
\_\_\_\_\_, Midcourse Space Experiment: Guest Editor's introduction 17(2), 134–136.  
Pfeiffer CG, and Masson BL, Technology demonstration by the Onboard Signal and Data Processor 17(2), 237–245.  
Phillips TE, see Colvin AE  
Radford WE, see Mobley FF  
Rapport ID, Balkcom GW, Stirrat CR, and Wilson RL, System-level testing in operational environments 17(4), 412–419.  
Roe CL, see Hyer SA  
Romick GJ, see Paxton LJ  
Russell R, see Burdick SV  
Rust DM, see Schuster PR

- Rzemien R, Coherent radar—Opportunities and demands 17(4), 386–400.
- Sadilek AC, see Smola JF
- Sadowsky J, Investigation of signal characteristics using the continuous wavelet transform 17(3), 258–269.
- Sanders JT Jr, see Cranmer JH
- Schaefer ED, see Skullney WE
- Schuster PR, Miragliotta JA, Thomas ME, and Rust DM, Development of optical filters based on photorefractive materials 17(3), 270–278.
- Schwartz PD, see Stott DD
- Seegar WS, Cutchis PN, Fuller MR, Suter JJ, Bhatnagar V, and Wall JS, Fifteen years of satellite tracking development and application to wildlife research and conservation 17(4), 401–411.
- Skullney WE, Kreitz HM Jr, Harold MJ, Vernon SR, Betenbaugh TM, Hartka TJ, Persons DF, and Schaefer ED, Structural design of the MSX spacecraft 17(1), 59–76.
- Smola JF, Barbagallo MH, Cranmer JH, DeBoy CC, Harold MJ, Krein JA, Kreitz HM Jr, Sadilek AC, and Utterback HK, MSX ground operations 17(2), 173–188.
- Srinivasan R, Gopalan P, Zarriello PR, Myles-Tochko CJ, and Meyer JH, Design of cathodic protection of rebars in concrete structures: An electrochemical engineering approach, 17(4), 362–370.
- Stair AT Jr, MSX design parameters driven by targets and backgrounds 17(1), 11–18.
- Stirrat CR, see Rapport ID
- Stott DD, Burek RK, Eisenreich P, Kroutil JE, Schwartz PD, and Sweitzer GF, The MSX Command and Data Handling System 17(2), 143–152.
- Street KW Jr, see Uy OM
- Suter JJ, see Seegar WS
- Sweitzer GF, see Stott DD
- Thomas ME, see Constantikes KT  
\_\_\_\_\_, see Schuster PR
- Thomas ME, and Joseph RI, Astronomical refraction 17(3), 279–284.
- Utterback HK, see Smola JF
- Uy OM, see Cranmer JH
- Uy OM, Ginther MJ, Folkerts JT, and Street KW Jr, Use of a NASA-developed ion exchange material for removal of zinc from electroplating baths 17(4), 371–376.
- Vernon SR, see Skullney WE
- Wall JS, see Seegar WS
- Williams DJ, Jupiter—At last! 17(4), 338–356.
- Williams SP, see Frank LJ
- Wilson DS, A testbed for the MSX attitude and tracking processors 17(2), 161–172.
- Wilson RL, see Rapport ID
- Woolston TL, see Bartschi BY
- Zarriello PR, see Srinivasan R

## SUBJECT INDEX

*Johns Hopkins APL Technical Digest*

Volume 17 (1996)

## AEROSPACE TECHNOLOGY

Air Force programs at APL 17(1), 117–126. Bythrow PF

## APL AWARDS

Awards for publications and research and development 17(3), 327–329. Maier-Tyler LL

## APPLIED RESEARCH

Astronomical refraction 17(3), 279–284. Thomas ME, and Joseph RI

Design of cathodic protection of rebars in concrete structures: An electrochemical engineering approach 17(4), 362–370. Srinivasan R, Gopalan P, Zarriello PR, Myles-Tochko CJ, and Meyer JH

Development of optical filters based on photorefractive materials 17(3), 270–278. Schuster PR, Miragliotta JA, Thomas ME, and Rust DM

Diurnal variation of desert midwave infrared images 17(4), 357–361. Constantikes KT, Thomas ME, and Claussen ED

Use of a NASA-developed ion exchange material for removal of zinc from electroplating baths 17(4), 371–376. Uy OM, Ginther MJ, Folkerts JT, and Street KW Jr

## BASIC RESEARCH

Investigation of signal characteristics using the continuous wavelet transform 17(3), 258–269. Sadowsky J  
Jupiter—At last! 17(4), 338–356. Williams DJ

## BOOK REVIEW

A comprehensive look at flame research 17(3), 325–326. Gann RG

## DEVELOPMENT

A novel solid-state oxygen sensor 17(4), 377–385. Colvin AE Jr, Phillips TE, Miragliotta JA, Givens RB, and Barger CB  
Coherent radar—Opportunities and demands 17(4), 386–400. Rzemien R

Fifteen years of satellite tracking development and application to wildlife research and conservation 17(4), 401–411. Seeger WS,  
Cutchis PN, Fuller MR, Suter JJ, Bhatnagar V, and Wall JS  
Shared aperture technology development 17(3), 285–294. Axness TA, Coffman RV, Kopp BA, and O'Haver KW

## IN MEMORIAM

Chih Kung Jen—A remembrance 17(3), 330–332. Berl WG

## INFORMATION TECHNOLOGY

Collaborative virtual prototyping 17(3), 295–304. Lombardo JS, Mihalak E, and Osborne SR

## MIDCOURSE SPACE EXPERIMENT

A testbed for the MSX attitude and tracking processors 17(2), 161–172. Wilson DS  
Contamination control for the MSX: An overview 17(1), 88–101. Cranmer JH, Sanders JT Jr, Lesho JC, and Uy OM  
Keeping the MSX on track 17(1), 35–40. Pardoe CT  
Midcourse Space Experiment: Guest Editor's introduction 17(1), 2–3. Peterson, MR  
Midcourse Space Experiment: Guest Editor's introduction 17(2), 134–136. Peterson MR  
MSX—A multiuse space experiment 17(1), 19–34. Paxton LJ, Meng CI, Anderson DE, and Romick GJ  
MSX attitude determination and control hardware 17(2), 153–160. Mobley FF, Radford WE, and Kennedy LR  
MSX design parameters driven by targets and backgrounds 17(1), 11–18. Stair AT Jr  
MSX ground operations 17(2), 173–188. Smola JF, Barbegalio MH, Cranmer JH, DeBoy CC, Harold MJ, Krein JA, Kreitz HM Jr,  
Sadilek AC, and Utterback HK  
MSX reference objects 17(2) 246–252. Burdick SV, Chalupa J, Hamilton CL, Murdock TL, and Russell R  
Structural design of the MSX spacecraft 17(1), 59–76. Skullney WE, Kreitz HM Jr, Harold MJ, Vernon SR, Betenbaugh TM, Hartka  
TJ, Persons DF, and Schaefer ED  
Technology demonstration by the Onboard Signal and Data Processor 17(2), 237–245. Pfeiffer CG, and Masson BL  
The MSX Command and Data Handling System 17(2), 143–152. Stott DD, Burek RK, Eisenreich P, Kroutil JE, Schwartz PD, and  
Sweitzer GF  
The MSX flight operations system 17(1), 102–116. Nordeen RD, Barnes VB, Good AC, and Harvey RJ  
The MSX mission objectives 17(1), 4–10. Mill JD, and Guilmain BD  
The MSX Performance Assurance Program 17(2), 189–197. Goss ME  
The MSX spacecraft power subsystem 17(1), 77–87. Panneton PE, and Jenkins JE  
The MSX spacecraft system design 17(1), 41–48. Huebschman RK  
The MSX thermal design 17(1), 49–58. Krein JA, and Mehoke DS  
The MSX tracking, attitude, and UVISI processors 17(2), 137–142. Frank LJ, Hersman CB, Williams SP, and Conde RF  
The Space-Based Visible sensor 17(2), 226–236. Harrison DC, and Chow JC  
The Spatial Infrared Imaging Telescope III 17(2), 215–225. Bartschi BY, Morse DE, and Woolston TL  
The UVISI instrument 17(2), 198–214. Heffernan KJ, Heiss JE, Boldt JD, Darlington EH, Peacock K, Harris TJ, and Mayr MJ

## PUBLICATIONS, PRESENTATIONS, AND COLLOQUIA

Publications, presentations, and colloquia 17(1), 127–131.  
Publications, presentations, and colloquia 17(2), 253–256.  
Publications, presentations, and colloquia 17(3), 333–336.  
Publications and presentations 17(4), 420–426.

## SYSTEM INTEGRATION

Integration of the Evolved Seasparrow Missile into ships of the NATO Seasparrow consortium navies 17(3), 314–324. Hyer SA,  
Johnston JJ, and Roe CL

## SYSTEM TEST AND EVALUATION

System-level testing in operational environments 17(4), 412–419. Rapport ID, Balkcom GW, Stirrat CR, and Wilson RL

## SYSTEMS DEVELOPMENT

Jupiter—At last! 17(4), 338–356. Williams DJ

## SYSTEMS ENGINEERING

The emerging joint system of systems: A systems engineering challenge and opportunity for APL 17(3), 305–313. Manthorpe WHJ  
Jr

## OTHER TOPICS

Patents 17(2), 256.