

AD-A263 215



2

PL-TR-93-2027(I)

**PROCEEDINGS OF THE SPACECRAFT CHARGING  
TECHNOLOGY CONFERENCE, 1989  
VOLUME I**

**Editor:**

**R. C. Olsen**

**DTIC**  
**ELECTE**  
**APR 2 1993**  
**S C D**

**Naval Postgraduate School  
Physics Department  
MC 61-05  
Monterey, CA 93943**

**November 1989**

**APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED**

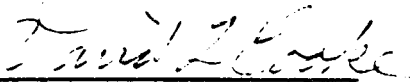


**PHILLIPS LABORATORY  
AIR FORCE MATERIEL COMMAND  
HANSCOM AIR FORCE BASE, MA 01731-3010**

**93 4 01 071**

**422 722**  
**93-06809**

" This technical report has been reviewed and is approved for publication "



DAVID L. COOKE  
Contract Manager



CHARLES P. PIKE  
Branch Chief

This report has been reviewed by the ESC Public Affairs Office (PA) and is releasable to the National Technical Information Service (NTIS).

Qualified requestors may obtain additional copies from the Defense Technical Information Center. All others should apply to the National Technical Information Service.

If your address has changed, or if you wish to be removed from the mailing list, or if the addressee is no longer employed by your organization, please notify PL/TSI, Hanscom AFB, MA 01731-5000. This will assist us in maintaining a current mailing list.

Do not return copies of this report unless contractual obligations or notices on a specific document requires that it be returned.

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
<small>Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</small>				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE Nov 1989		3. REPORT TYPE AND DATES COVERED Scientific Final 1 Oct 88-3 Nov 89
4. TITLE AND SUBTITLE Proceedings of the Spacecraft Charging Technology Conference 1989, Vol 1			5. FUNDING NUMBERS PE 62101F PR 7601 TA 760130 WU 760130CK MIPR #FY71219000005	
6. AUTHOR(S) Editor: R.C. Olsen				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Naval Postgraduate School Physics Dept, MC 61-05 Monterey, CA 93943			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) Phillips Laboratory 29 Randolph Road Hanscom AFB, MA 01731-3010  Contract Monitor: David L. Cooke/PL/WSSI			10. SPONSORING/MONITORING AGENCY REPORT NUMBER  PL-TR-93-2027 (1)	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION/AVAILABILITY STATEMENT  Approved for public release; Distribution unlimited			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) <p>The Spacecraft Charging Technology Conference was held at the Naval Postgraduate School, Monterey, California, from 31 October to 3 November 1989. This was the fifth in a series of meetings jointly sponsored by the Air Force and NASA to deal with spacecraft environment interactions. The meeting was attended by 108 people with 60 talks presented. The majority of the speakers have chosen to present their work in these two volumes. Volume 1 contains pages 1 through 333, Volume 2 contains pages 334 through 624.</p>				
14. SUBJECT TERMS spacecraft, spacecraft charging, space environment space plasma, interactions			15. NUMBER OF PAGES 342	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT SAR	