

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

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.

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE Jul 95	3. REPORT TYPE AND DATES COVERED Final 30 June 1995 - 29 June 1996
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4. TITLE AND SUBTITLE 1995 Gordon Research Conference on Optical Information Processing & Holography	5. FUNDING NUMBERS DAAH04-95-1-0505
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6. AUTHOR(S) Storm Carlyle	
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7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Gordon Research Conferences, Inc. University of Rhode Island Kingston, RI 02881-0801	8. PERFORMING ORGANIZATION REPORT NUMBER
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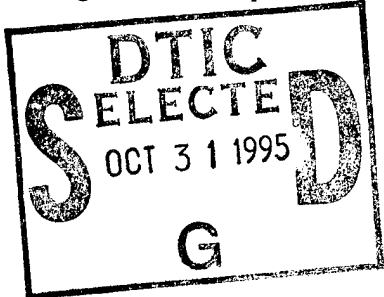
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) U.S. Army Research Office P.O. Box 12211 Research Triangle Park, NC 27709-2211	10. SPONSORING/MONITORING AGENCY REPORT NUMBER ARO 33949.1-PH-CF
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11. SUPPLEMENTARY NOTES
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13. ABSTRACT (Maximum 200 words)

A Gordon Conference on Optical Signal Processing and Holography was held on 26-30 June 1995 at Plymouth State College, New Hampshire. There were 89 participants.



19951027 067

By _____	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	

DTIC QUALITY INSPECTED 5

14. SUBJECT TERMS Holography, optical processing	15. NUMBER OF PAGES
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16. PRICE CODE	
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17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED	20. LIMITATION OF ABSTRACT UL
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1995 GORDON RESEARCH CONFERENCE ON OPTICAL SIGNAL PROCESSING AND HOLOGRAPHY

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Final Report for

ARO Grant No. DAAH04-95-1-0505

The Gordon Research Conference on Optical Signal Processing and Holography was held from 26 - 30 June 1995 at Plymouth State College, Plymouth, New Hampshire. The conference had eighty-nine participants, including fifteen students and twenty-four participants from eight foreign countries. There were attendees from universities, industries, government laboratories, and a medical institute. The attendance of most students and younger faculty was supported by grants.

The Gordon Research Conferences promote discussions and the free exchange of ideas at research frontiers. Scientists with common interests in a particular field come together for a week of intense discussion and examination of the most advanced aspects of their field of interest. This conference brought together people performing research in: non conventional imaging, including incoherent holography, imaging with integrated optical and digital systems, super resolution, interferometric imaging, and imaging with very short pulses; real-time 3-dimensional displays using holography and auto stereoscopic displays; and holographic data storage. There were fourteen invited oral presentations in 4 1/2 days, and thirty-five poster presentations in two evenings. The schedule was arranged to leave 20 - 25 minutes after each oral presentation. This assured that the discussions, the most important part of the Gordon meetings, would not be slighted. Additional informal discussions after lunch were prevalent. The poster sessions, unlike the poster sessions at many meetings, were attended by all, and discussions went on into the night and the next day. (Posters were left up for two days.)

New results were presented on interferometric and holographic imaging, and new mathematical tools and techniques were presented for describing imaging systems. The extended discussions were very useful, and several people commented that it was the best discussion and interaction that they had had at a Gordon Conference. Many also commented at the meeting and afterward that they considered the meeting to have been a great success.