TECHNICAL OUTPUT

The Navy continues to be a pioneer in initiating new developments and a leader in applying these advancements to military requirements. The primary method of informing the scientific and engineering community of the advances made at NRL is through the Laboratory's technical output—reports, articles in scientific journals, contributions to books, papers presented to scientific societies and topical conferences, patents, and inventions.

The figures for calendar year 2001 presented below represent the output of NRL facilities in Washington, D.C.; Bay St. Louis, Mississippi; and Monterey, California.

In addition to the output listed, NRL scientists made more than 678 oral presentations during 2001.

Type of Contribution	Unclassified	Classified	Total
Articles in periodicals, chapters in books, and papers in published proceedings	1018	3	1021
NRL Formal Reports	13	10	23
NRL Memorandum Reports	83	3	86
Books	2	0	2
Patents granted			86
Statutory Invention Registrations (SIRs)			4

*This is a provisional total based on information available to the Ruth H. Hooker Research Library and Technical Information Center on January 16, 2002. Additional publications carrying a 2001 publication date are anticipated.

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Radar Division

121 Digital Array Radar: A New Vision
J.W. de Graaf and B.H. Cantrell

124 Polar Reformatting for ISAR Imaging
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Information Technology Division

139 Evaluation of Electronic Documents for Preparing Naval Meteorological and Oceanographic Briefings
J.A. Ballas, W.C. Kooiman, and R.T. Miyamoto

141 Satellite Networking for Naval Battlegroups
M.A. Rupar, A.S. Eley, and M. Solsman

Optical Sciences Division

153 Protectively Coated Phosphors for Flat Panel FED Devices
J.S. Sanghera, G. Villalobos, S.S. Bayya, and I.D. Aggarwal

159 Quantum Dot Bioconjugates in Molecular Detection
J.M. Mauro, G.P. Anderson, E.R. Goldman, H. Mattoussi, and B.L. Justus

177 Subvolt Broadbank Lithium Niobate Modulators
M.M. Howerton, R.P. Moeller, J.H. Cole, and J. Niemel

179 Technology Demonstration of SHARP, the Navy's Next-Generation Tactical Reconnaissance System
M.D. Duncan, M.R. Kruer, D.C. Linne von Berg, and J.N. Lee

183 Photonic Ultrawideband Millimeter Wave Beamformer
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Tactical Electronic Warfare Division

143 Advanced Visualization for Test and Evaluation and Training Ranges
J.Q. Binford and W.A. Doughty

146 Signal Sorter for Advanced Multifunction Radio Frequency Concept (AMRF-C) Using Neural Networks and Advanced Statistical Techniques
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197 LPD-17 Self-Protection
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202 Embedded Processor Analysis/Simulation Tools
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107 Polar and Hydrophobic Pores and Channels in Peptide Assemblies
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45 MIME Chemical Vapor Microsensors
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57 High-Temperature Tensile Properties of Graphite Fiber-Phthalonitrile Composites
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Materials Science and Technology Division

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157 Raman Spectroscopy of High-Temperature Superconductors
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209 Imaging the Galactic Center at 74 MHz: Viewing Our Galaxy through the Last Electromagnetic Window
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169 Remote Wind Connections to Strait Transports
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Marine Meteorology Division

99 Atmospheric Structure, Sea State, and Radar Propagation Conditions Associated with an Island Wake
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101 Variability of Atmospheric Forecast Error Sensitivity 1996-2000
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211 Accurate Localization of the Points-of-Interest by Correcting Atmospheric Effects
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