

2003 NHMFL ANNUAL RESEARCH REVIEW

NATIONAL HIGH MAGNETIC FIELD LABORATORY

CONTENTS

1	Introduction	1
2	Research Review -An Overview	7
	BIOCHEMISTRY	13
	BIOLOGY	51
	CHEMISTRY	73
	CRYOGENICS	95
	ENGINEERING MATERIALS	101
	GEOCHEMISTRY	111
	INSTRUMENTATION	121
	KONDO/HEAVY FERMION SYSTEMS	131
	MAGNET TECHNOLOGY	149
	MAGNETIC RESONANCE TECHNIQUES	153
	MAGNETISM AND MAGNETIC MATERIALS	179
	METAL-INSULATOR TRANSITIONS	219
	MOLECULAR CONDUCTORS	225
	OTHER CONDENSED MATTER	249
	QUANTUM FLUIDS AND SOLIDS	265
	SEMICONDUCTORS	271
	SUPERCONDUCTIVITY - APPLIED	299
	SUPERCONDUCTIVITY - BASIC	313
3	User Facilities	335
4	In-House Research Program	353
5	Publications, Presentations & Related Materials	355
	Appendices	
	A-Research Reports by Category	403
	B-Research Reports by Authors	411
	C-Publications Index by Authors	417