

Table of Contents

INTRODUCTION	1
UNDERSTANDING THE TECHNOLOGY TRANSFER PROCESS	2
The Philosophical Gap Between Government and Industry	2
National Concern and Initiatives	3
Congressional Initiatives D O	4
Administration Initiatives	4
TECHNOLOGY TRANSFER PROCESSES 0	5
Technology -Push Processes	5
Market-Pull Technology Transfer	6
State and Regional Facilitator Programs	6
Mechanisms	7
Cooperative Agreements	7
Cooperative Research and Development Agreements	7
R&D Consortia , , , , , , ,	7
Exchange Programs . , , , , , ,	7
User Facility Agreement , , , , ,	8
Work-for-Others . , , , , , , ,	8
Small Business Innovation Research (SBIR) Program	8
Small Business Technology Transfer Pilot (STTR) Program	9
Demonstration Projects . , , , , , , ,	9
Professional and Trade Associations . , , , , , , , ,	9
Supporting Organizations and Associations , , , , , , , ,	9
The Technology Transfer Society , , , , ,	9
The Association of Federal Technology Transfer Executives . . . ,	9
FACTORS INFLUENCING THE EFFECTIVENESS OF TECHNOLOGY TRANSFER . ,	10
Barriers to technology transfer , . . . , . . . , , , , , , , , ,	10
Private Sector Issues , . . . , , . . . , , , , , , , , ,	10
Awareness . , , , , , , , , , , , , , , , , ,	10
Poor perception of Commercial Applications , , , , ,	10
Access , , , , , , , , , , , , , , , ,	10
Size, Diversity, and Dispersion of Federal Agencies and Laboratories . . . , , , , , , , , , , , , , , , , ,	11
Not Invented Here . , , , , , , , , , , , ,	11
Intellectual Property Concerns , . . . , , , , , , , , , ,	11
Reluctance to Deal with Federal Government . . . , , , , , , , ,	12
Financing . , , , , , , , , , , , , , , , , ,	12
Understanding the Innovation Process , , , , , , , ,	12

Federal Agency/Laboratory Issues	13
Mission Priority	13
Funding	13
Security Issues	13
Institutional Barriers and Culture	14
Bureaucratic Barriers	0*
Technical Barriers	15
 OVERVIEW OF FEDERAL SUPPORT FOR R&D	16
CROSS-CUTTING TECHNOLOGY TRANSFER ORGANIZATIONS	17
The National Technical Information Service	17
Federal Research In Process	18
FEDWORLD 0 0	18
The Patent Licensing Bulletin Board	18
The Federal Laboratory Consortium	19
FLC Clearinghouse . . . ,	20
FLC Training . . . , . . . , . . . , . . . , . . .	20
FLC Publications . . . ,	20
FLC Awards Program	20
The National Technology Transfer Center . . . , **	20
The NTTC Gateway	* 21
Education and Training Programs	23
Economic Development Programs	23
NTTC Technology Transfer Services	24
PRIMARY FEDERAL R&D AGENCY TECHNOLOGY TRANSFER PROGRAMS	24
The Department of Commerce (DOC)	24
The DOC Technology Administration	25
The Clearinghouse for State and Local Initiatives on Productivity, Technology, and Innovation	25
The National Institute of Standards and Technology (NIST)	25
Patent and Trademark Office	26
The National Aeronautics and Space Administration (NASA)	27
NASA Field Center Offices . . , . . . , . . . ,	27
Regional Technology Transfer Centers . . . ,	27
Specialized Technology Transfer Centers	27
NASA Tech Briefs . , . . . ,	28
The NASA RECON Information System	28
NASA Technology Transfer Effectiveness . . . ,	28
The Department of Defense . . . , . . . , . . . ,	29
The DOD Office of Technology Transition . . , . . ,	30
The Defense Technical Information Center (DTIC)	30

The Ballistic Missile Defense Organization (formerly Strategic Defense Initiative) Technology Applications Program	32
Advanced Research Projects Agency	33
Technology Transfer in the Military Services	34
The Corps of Engineers , , , , ,	34
The Department of Energy	34
The Office of Scientific and Technical Information	35
DOE Technology Transfer Programs	36
Special DOE Technology Transfer Programs	36
Department of Health and Human Services ,	37
PHS Office of Technology Transfer On-Line	37
Computer Retrieval of Information on Scientific Projects , , , .	37
The U.S. Department of Agriculture ,	37
TEKTRAN - The USDA Technology Transfer Information System	38
The Alternative Agricultural Research and Commercialization Center	38
The Agricultural Inventions Catalog	38
The Department of Education	38
Rehabilitation Research and Training Centers	38
The Rehabilitation Information System	38
The Environmental Protection Agency	39
The Alternative Treatment Technology Information Center	39
The Pollution Prevention Information Clearinghouse	39
The Vendor Information System for Innovative Treatment Technologies	39
The Department of Transportation	39
Other Federal Agencies	40
The Critical Technologies Institute	40
The CTI Data Base System . * . * *	40
PRIVATE SECTOR PROGRAMS ,	40
Teltech , , , , , , ,	41
Knowledge Express	41
Technology Access Report	42
Technical Insights, Inc	42
Pennsylvania Business Information Center On Line	42
Texas Innovation Network	43
Best North America , , , , , , ,	43
Technology Transfer Search System	43
PROMINENT UNIVERSITY PROGRAMS	43
The MIT Licensing Office	44
Johns Hopkins University Programs	44

