NATIONAL SCIENCE FOUNDATION
INDUSTRY/UNIVERSITY
COOPERATIVE RESEARCH CENTERS

FINAL
1993-1994 STRUCTURAL INFORMATION[1]

- TABLE 1: GENERAL INFORMATION
- TABLE 2: OPERATING BUDGET (BREAKDOWN OF DIRECT FUNDING)
- TABLE 3: BUDGET FIGURES & CAPITAL FUNDING
- TABLE 4: INDUSTRY MEMBERSHIP DESCRIPTORS
- TABLE 5: HUMAN RESOURCES
- TABLE 6: CENTER DIRECTOR DESCRIPTORS
- TABLE 7: INTELLECTUAL PROPERTY
- APPENDIX: FOOTNOTES: SPECIAL CONSIDERATIONS

(Footnotes appear on top of columns and/or at end of rows for each Table and are described in the Appendix on the last page).

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NOTE: 1993-1994 Table data collected from 56/56 Center Director Surveys (100% response rate).[2]

PLEASE DIRECT QUESTIONS AND COMMENTS TO THE AUTHORS [3]

TABLE 1

1993-1994 GENERAL INFORMATION

STATUS	YEAR FUNDED	UNIVERSITY (CENTER)	DIRECTOR	# OF DEPTS. INVOLVED
	1980	1. University of Massuchusetts (Center on Research on Polymers)	Moynahan, E. Bradley	3
	1981	2. Case Western Reserve (Center for Applied Polymer Research)	Hiltner, Anne	5
	1982	3. North Carolina State University (Center for Communications & Signal Processing)	Rajala, Sarah A.	3
		4. Rutgers University (Center for Ceramic Research)	Niesz, Dale E.	3
		5. Georgia Institute of Technology (Materials Handling Research Center)	Pence, I.W. Jr.	5
		6. Pennsylvania State University (Center for Dielectric Studies)	Dougherty, Joseph P.	5
	1984	7. Colorado School of Mines (Advanced Steel Processing and Products Research)	Matlock, David	3
		8. University of Washington (Center for Process Analytical Chemistry)	Kowalski, Bruce & Weissman, Gene	5
		9. New Jersey Institute of Technology (Hazardous Substance Management Research Center)	Magee, Richard S.	6
		10. University of Arizona (Center for Optical Circuitry)	Peyghambarian, Nasser	3
		11. Northwestern University (Center for Engineering Tribology)	Cheng, Herbert S.	4
		12. University of Arizona (Center for Microcontamination & Control)	O'Hanlon, John	4
		13. Northeastern University (Center for Electromagnetics Research)	Silevitch, Michael B.	3
SELF-SUSTAINING		14. Lehigh University (Chemical Process Modeling & Control Research Center)	Georgakis, Christos	4
		15. Rutgers University (Centers for Plastics Recycling Research)	Saba, Raymond	8
	1985	16. Carnegie Mellon University (Center for Iron & Steelmaking Research)	Fruehan, R.J. & Cramb, A.W.	3
		17. Lehigh University (Center for Innovation Management Studies)	Bean, Alden S.	2
		18. University of Texas - Arlington (Center for Advanced Electron Devices)	Mitchell, Robert	1
		19. University of Tennessee (Measurement & Control Engineering)	Garrison, Arlene A.	4
		20. Iowa State University (Center for Nondestructive Evaluation)	Thompson, Donald O.	8
	1986	21. Oklahoma State University (Web Handling Research Center)	Reid, Karl N.	3
		22. Alfred University (Center for Glass Research)	Pye, L. David	2
		23. New Mexico Institute of Mining & Technology (Research Center for Energetic Materials)	Persson, Per-Anders	4
		24. University of Florida/Purdue (Software Engineering Research Center)	Ohanian, M.J. & DeMillo, R.A.	3
		25. University of California - Berkeley (Sensors & Actuators Centers)	Muller, Richard	5
	1987	26. University of Iowa (Center for Simulation & Design Optimization of Mechanical Systems)	Haug, Edward J.	4
		27. USC/UCLA (Center for Manufacturing Automation)	Bekey, G.A. & Melkanoff, M.A.	2
		28. North Carolina State University (Center for Aseptic Processing & Packing Studies)	Swartzel, K.R.	6
	1988	29. University of Colorado (Microwave & Millimeter Computer-Aided Design)	Booton, Richard	2
		30. State University of New York at Buffalo (Center for Biosurfaces)	Baier, R.	4
			MEAN "SELF-SUSTAINING:"	**3.9**
	1989	31. University of Pittsburgh (Parallel & Distributive Intelligence Systems Research Center)	Chang, Shi-kuo	2
		32. University of New Mexico (Center for Micro-Engineered Ceramics)	Datye, Abhaya K.	4
		33. Brown University/University of Rhode Island (Center for Thin Film & Interface Research)	Loferski, Joseph & Mitra, Shashanka	4
3 to 5 YEAR OLDS		34. University of California at San Diego (Center for Integrated Circuits & Systems)	Ku, Walter	3
		35. Georgia Institute of Technology/University of Arizona (Information Management Research)	McCracken, W.M. & Nunamaker, J.	2
		36. Washington State University (Center for Analog/Digital Integrated Circuits)	Ringo, John	1
	1990	37. University of Illinois, Urbana (Air Conditioning & Research Center)	Bullard, Clark W.	2
		38. University of Connecticut (Center for Grinding Research & Development)	Howes, Trevor D.	4
		39. University of Michigan (Dimensional Measurement and Control in Manufacturing)	Ni, Jun	3
	1991	40. Eastern Michigan University (Center for Coatings Research)	Jones, Frank	2
		41. University of North Texas (Center for Nanostructural Materials Research)	McDaniel, Floyd	3
			MEAN "3 to 5 YEAR OLDS:"	**2.7**
	1992	42. University of California at Irvine (Center for High-Speed Image Processing)	Ferrari, L.	3
		43. University of Colorado at Boulder (Center for Separations using Thin Films)	Krantz, William & Noble, Richard	4
		44. Lehigh University (Center for Polymer Interfaces)	El-Aasser, Mohamed S.	5
		45. North Carolina State University (Center for Integrated Pest Management)	Stinner, Ronald E.	7
		46. Rutgers University (Center for Wireless Information Networks)	Goodman, David J.	3
2 YEARS & LESS		47. Villanova University (Center for Advanced Communications)	Di Giacomo, Joseph	3
		48. Carnegie-Mellon University (Center for Building Performance)	Hartkopf, Volker	1
		49. Arizona State Uni. & Western Network for Educ. in Health Admin. (Center for Health Management)	Zuckerman, H. & Robinson, C.	14
	1993	50. Ohio University (Center for Corrosion in Multiphase Systems)	Jepson, W. Paul	1
	1994	51. University of Illinois (Center for Machine-Tool Systems)	Kapoor, Shiv	6
		52. University of Massachusetts (Center for Polymer Biodegredation)	McCarthy, Steve	4
		53. New Jersey Institute of Technology (Center for Emission Reduction Research)	Watts, Daniel	4
		54. University of Rhode Island (Center for Ocean Technology)	Callahan, Jefferey	4
		55. Stanford University (Center for Composite Design)	Tsai, Stephen	1
		56. Colorado School of Mines & Purdue University (Center for Advanced Control of Energy and Power Syste	Shoureshi, Rahmatallah	3
			MEAN "2 YEARS & LESS:"	**4.2**
			GRAND MEAN:	**3.8**
			GRAND SUM:	**210**

TABLE 2

1993-1994 OPERATING BUDGET: BREAKDOWN OF DIRECT FUNDING

			4	5	6	7	8	9	10
STATUS	YEAR	ABBREVIATED NAME	TOTAL DIRECT	NSF FUNDING	INDUSTRY MEMBER FEES	OTHER INDUSTRY FUNDING	STATE FUNDING	OTHER FUNDING	UNIVERSITY DIRECT FUNDS
	1980	1. Mass. (Polymers)	$196,150	$64,570	$131,580	$0	$0	$0	$0
	1981	2. Case Western (Polymers)	•	•	•	•	•	•	•
	1982	3. NCSU (Communication/Signal Proc.)	$728,394	$44,067	$146,125	$320,259	$102,281	$45,662	$70,000
		4. Rutgers (Ceramic)	$2,821,893	$50,000	$214,347	$667,876	$1,297,454	$492,812	$99,406
		5. Georgia Tech. (Materials Handling)	$998,988	$71,533	$309,677	$126,355	$0	$11,423	$480,000
		6. Penn. State (Dielectrics Studies)	$418,485	$26,635	$127,050	$140,800	$30,000	$0	$94,000
	1984	7. Colorado School of Mines (Steel)	$814,613	$38,709	$753,009	$14,831	$0	$8,064	$0
		8. Washington (Process Analytical Chem.)	$2,710,641	$26,667	$1,554,210	$250,706	$143,130	$585,768	$149,622
		9. NJIT (Hazardous Substance Mgmt.)	$10,208,813	$425,133	$88,000	$353,623	$2,818,562	$6,308,755	$214,740
		10. Arizona (Optical)	$423,269	$79,963	$109,000	$330	$228,007	$0	$5,969
		11. Northwestern (Engineering Tribology)	$534,733	$43,797	$200,000	$265,936	$0	$0	$15,000
		12. Arizona (Microcontamination)	$407,869	$31,800	$323,432	$0	$18,115	$31,500	$3,122
		13. Northeastern (Electromagnetics)	$698,000	$58,000	$200,000	$150,000	$0	$200,000	$90,000
SELF-SUSTAINING		14. Lehigh (Chemical Process)	$506,120	$53,000	$243,000	$0	$0	$0	$10,120
		15. Rutgers (Plastics)	$675,237	$37,974	$252,000	$0	$12,273	$274,000	$128,590
	1985	16. Carnegie Mellon (Iron & Steel)	$868,000	$42,000	$625,000	$0	$0	$201,000	$0
		17. Lehigh (Innovation)	$220,108	$44,108	$162,000	$0	$0	$10,000	$4,000
		18. Texas - Arlington (Adv. Electron Devices)	$546,834	$60,000	$200,000	$0	$165,834	$96,000	$25,000
		19. Tennessee (Measurement & Control)	$598,205	$80,955	$397,250	$4,000	$0	$116,000	$0
		20. Iowa State (Nondestructive Evaluation)	$1,245,374	$29,861	$770,000	$0	$378,000	$0	$67,513
	1986	21. Oklahoma State (Web Handling)	$659,000	$43,000	$400,000	$30,000	$102,000	$42,000	$42,000
		22. Alfred (Glass)	$708,003	$95,500	$506,503	$30,000	$66,000	$10,000	$0
		23. New Mexico Inst. (Energetic)	$262,660	$35,830	$150,830	$0	$0	$0	$76,000
		24. Florida/Purdue (Software Eng.)	$438,000	$60,000	$168,000	$90,000	$0	$0	$120,000
		25. UC Berkeley (Sensors & Actuators)	$1,614,937	$183,150	$577,571	$107,359	$214,483	$523,920	$8,490
	1987	26. Iowa (Simulation & Design)	$3,285,704	$40,000	$240,000	$150,000	$0	$2,855,704	$0
		27. S. California (Manufactruing)	$286,494	$35,592	$0	$125,902	$0	$125,000	$0
		28. NCSU (Aseptic Processing)	$409,826	$32,654	$280,550	$31,778	$0	$40,594	$24,250
	1988	29. Colorado (Microwave)	$326,500	$45,325	$255,000	$21,250	$0	$2,825	$2,100
		30. SUNY at Buffalo (Biosurfaces)	$372,000	$37,000	$160,000	$80,000	$0	$35,000	$60,000
		MEAN *SELF-SUSTAINING:*	$1,164,585	$66,897	$329,108	$102,184	$192,281	$414,246	$61,721
	1989	31. Pittsburgh (Intelligence Systems)	$176,854	$41,854	$135,000	$0	$0	$0	$0
		32. New Mexico (Micro-Engineered Ceramics)	$2,219,901	$65,568	$378,650	$64,865	$0	$1,374,000	$336,818
		33. Brown/Rhode Island (Film)	$339,250	$0	$38,250	$245,000	$0	$0	$50,000
3 to 5 YEAR OLDS		34. Calif. - San Diego (Integrated Circuits)	$497,000	$397,000	$100,000	$0	$0	$0	$0
		35. Ga. Tech./Arizona (Information Mgmt.)	$245,000	$70,000	$40,000	$75,000	$0	$50,000	$10,000
		36. Washington State (Integrated Circuits)	$660,690	$120,690	$295,000	$0	$95,000	$0	$150,000
	1990	37. Univ. of Illinois (Air Conditioning)	$827,000	$40,000	$630,000	$150,000	$0	$0	$7,000
		38. Univ. of Connecticut (Grinding)	$1,990,906	$90,000	$348,000	$150,000	$342,375	$906,976	$153,555
		39. Univ. of Michigan (Dimensional Measureme	$660,000	$60,000	$450,000	$150,000	$0	$0	$0
	1991	40. Eastern Michigan University (Coatings)	$301,167	$43,667	$210,000	$10,000	$30,000	$0	$7,500
		41. Univ. of North Texas (Nanostructure)	$637,000	$55,000	$92,000	$430,000	$5,000	$15,000	$40,000
		MEAN *3 to 5 YEAR OLDS:*	$717,161	$89,434	$246,991	$115,897	$42,943	$213,271	$68,625
	1992	42. UC Irvine (Image Processing)	$936,000	$50,000	$300,000	$207,000	$50,000	$278,000	$51,000
		43. Univ. of Colorado (Thin Film)	$638,225	$36,725	$456,000	$38,000	$65,000	$0	$425,000
		44. Lehigh (Polymer Interfaces)	$541,055	$50,000	$350,000	$71,915	$0	$33,210	$35,930
		45. NCSU (Pest Management)	$383,690	$83,690	$300,000	$0	$0	$0	$0
		46. Rutgers (Wireless Information)	$1,258,351	$17,183	$840,000	$95,000	$0	$81,658	$224,510
2 YEARS & LESS		47. Villanova (Advanced Communication)	$395,000	$50,000	$195,000	$0	$150,000	$0	$0
		48. Carnegie-Mellon (Building Performance)	$537,462	$89,125	$300,000	$61,545	$0	$86,792	$0
		49. Arizona St./West. Network (Health Mgmt.)	$385,000	$50,000	$315,000	$10,000	$0	$10,000	$0
	1993	50. Ohio University (Corrosion)	$525,000	$84,000	$322,000	$85,000	$0	$10,000	$24,000
	1994	51. Illinois (Machine-Tool Systems)	$427,347	$50,000	$377,247	$0	$0	$0	$0
		52. Massachusetts (Polymer Biodegredation)	$432,000	$50,000	$150,000	$132,000	$0	$0	$90,000
		53. NJIT (Emission Reduction)	$1,959,000	$50,000	$500,000	$471,000	$90,000	$600,000	$248,000
		54. Rhode Island (Ocean Technology)	$330,810	$36,765	$205,000	$47,245	$10,000	$0	$31,000
		55. Stanford (Composite Design)	$350,000	$50,000	$300,000	$0	$0	$0	$0
		56. CSM & Purdue (Energy & Power)	$400,000	$50,000	$270,000	$0	$0	$50,000	$30,000
		MEAN *2 YEARS & LESS:*	$622,534	$53,166	$345,350	$81,247	$24,333	$76,644	$77,296
		GRAND MEANS:	$941,896	$67,758	$317,114	$92,174	$116,689	$282,830	$67,369
		GRAND SUMS:	$51,803,760	$3,698,090	$17,441,281	$5,454,578	$6,412,514	$15,511,663	$2,704,735

TABLE 3

1993-1994 BUDGET FIGURES & CAPITAL FUNDING

			4	11	12	13	14	15	16						
			A	B	C	D			IN KIND SUPPORT					NSF	INDUSTRY
STATUS	YEAR	ABBREVIATED NAME	DIRECT FUNDING	OVERHEAD CHARGES	TOTAL BUDGET Cols (A + B)	UNIVERSITY WAIVED OVERHEAD	EFFECTIVE BUDGET Cols (C + D)	TOTAL CAPITAL FUNDING	Software	Equipm't	Pers'nnel	Other		OVERHEAD (%)	OVERHEAD (%)
	1980	1. Mass. (Polymers)	$196,150	$76,498	$272,648	$0	$272,648	$0	$0	$70,000	$0	$0		52%	52%
	1981	2. Case Western (Polymers)	•	•	$1,500,000	•	•	•	•	•	•	•		51%	20%
	1982	3. NCSU (Communication/Signal Proc.)	$728,394	$98,126	$826,320	$227,538	$1,053,858	$85,000	$0	$85,000	$66,775	$0		48%	9%
		4. Rutgers (Ceramic)	$2,821,895	$544,061	$3,365,956	$0	$3,365,956	$0	$0	$0	$0	$0		59%	59%
		5. Georgia Tech. (Materials Handling)	$998,988	$243,912	$1,242,900	•	$1,242,900	$0	$0	$0	$0	$0		37%	55%
		6. Penn. State (Dielectrics Studies)	$418,485	$220,515	$639,000	$55,800	$694,800	$0	$0	$0	$0	$0		45%	45%
	1984	7. Colorado School of Mines (Steel)	$814,613	$127,687	$942,300	$236,200	$1,178,500	$0	$0	$0	$0	$80,000		24%	18%
		8. Washington (Process Analytical Chem.)	$2,710,641	$492,796	$3,203,437	$228,834	$3,432,270	$0	$0	$111,000	$250,000	$0		49%	49%
		9. NJIT (Hazardous Substance Mgmt.)	$10,208,813	$2,761,224	$12,970,037	$1,243,481	$14,213,518	$33,598	$0	$0	$0	$0		64%	5%
		10. Arizona (Optical)	$423,269	$35,207	$458,476	$0	$458,476	$57,750	$0	$0	$0	$0		52%	52%
		11. Northwestern (Engineering Tribology)	$524,733	$161,796	$686,529	$82,102	$768,631	$0	$0	$0	$2,500	$0		48%	10%
		12. Arizona (Microcontamination)	$407,969	$192,267	$604,237	$20,085	$624,322	$105,000	$0	$556,000	$100,000	$0		51%	51%
		13. Northeastern (Electromagnetics)	$698,000	$0	$698,000	$400,000	$1,098,000	$0	$0	$0	$0	$0		58%	0%
SELF-SUSTAINING		14. Lehigh (Chemical Process)	$306,120	$27,000	$333,120	$153,611	$486,731	$0	$0	$0	$0	$32,000		58%	10%
		15. Rutgers (Plastics)	$673,237	$55,253	$728,490	$0	$728,490	$25,000	$0	$160,000	$0	$0		59%	59%
	1985	16. Carnegie Mellon (Iron & Steel)	$868,000	$129,000	$997,000	$0	$997,000	$0	$0	$0	$0	$0		62%	62%
		17. Lehigh (Innovation)	$220,108	$25,898	$246,006	$0	$246,006	$0	$0	$0	$0	$0		55%	10%
		18. Texas - Arlington (Adv. Electron Devices)	$546,834	$318,873	$865,707	$0	$865,707	$156,186	$0	$0	$0	$0		0%	0%
		19. Tennessee (Measurement & Control)	$598,205	$18,045	$616,250	$216,500	$832,750	$0	$0	$130,000	$15,000	$0		43%	0%
		20. Iowa State (Nondestructive Evaluation)	$1,245,374	$13,139	$1,258,513	$338,800	$1,597,313	$0	$0	$0	$0	$0		44%	0%
	1986	21. Oklahoma State (Web Handling)	$659,000	$0	$659,000	$196,000	$855,000	$0	$0	$0	$0	$0		0%	0%
		22. Alfred (Glass)	$708,003	$120,000	$828,003	$120,000	$948,003	$0	$0	$0	$0	$0		75%	82%
		23. New Mexico Inst. (Energetic)	$262,660	$37,340	$300,000	$0	$300,000	$0	$0	$0	$0	$0		20%	20%
		24. Florida/Purdue (Software Eng.)	$438,000	$57,000	$495,000	$0	$495,000	$0	$0	$0	$0	$0		51%	25%
		25. UC Berkeley (Sensors & Actuators)	$1,614,937	$256,918	$1,871,891	$621,495	$2,493,386	$0	$25,000	$34,000	$0	$0		50%	0%
	1987	26. Iowa (Simulation & Design)	$3,285,704	$0	$3,285,704	$0	$3,285,704	$0	$0	$0	$0	$0		46%	0%
		27. S. California (Manufacturing)	$286,494	$125,484	$411,978	$36,560	$448,538	$0	$0	$0	$0	$0		62%	15%
		28. NCSU (Aseptic Processing)	$409,826	$52,393	$462,219	$0	$462,219	$33,000	$0	$0	$0	$0		47%	10%
	1988	29. Colorado (Microwave)	$326,500	$60,600	$387,100	$106,875	$493,975	$50,000	$0	$0	$0	$0		44%	15%
		30. SUNY at Buffalo (Biosurfaces)	$372,000	$0	$372,000	$100,000	$472,000	$0	$0	$40,000	$40,000	$0		52%	12%
		MEAN *SELF-SUSTAINING:*	**$1,164,585**	**$215,553**	**$1,384,261**	**$156,567**	**$1,531,438**	**$18,812**	**$1,000**	**$45,615**	**$18,241**	**$4,480**		**47%**	**25%**
	1989	31. Pittsburgh (Intelligence Systems)	$176,854	$18,146	$195,000	$58,500	$253,500	$0	$0	$0	$0	$0		49%	10%
		32. New Mexico (Micro-Engineered Ceramics)	$2,219,901	$783,567	$3,005,468	$0	$3,005,468	$0	$0	$0	$0	$0		45%	0%
		33. Brown/Rhode Island (Film)	$333,250	$91,750	$425,000	$32,000	$457,000	$15,000	$0	$20,000	$0	$0		15%	15%
3 to 5 YEAR OLDS		34. Calif. - San Diego (Integrated Circuits)	$497,000	$0	$497,000	$248,000	$745,000	$0	$0	$0	$0	$0		0%	0%
		35. Ga. Tech./Arizona (Information Mgmt.)	$245,000	$113,000	$358,000	$0	$358,000	$0	$0	$0	$0	$0		35%	50%
		36. Washington State (Integrated Circuits)	$660,690	$54,310	$715,000	$182,450	$897,450	$0	$0	$0	$0	$0		45%	0%
	1990	37. Univ. of Illinois (Air Conditioning)	$827,000	$15,000	$842,000	$220,000	$1,062,000	$0	$0	$3,000	$0	$0		53%	0%
		38. Univ. of Connecticut (Grinding)	$1,990,906	$35,482	$2,026,388	$173,448	$2,199,836	$0	$0	$0	$0	$0		40%	0%
		39. Univ. of Michigan (Dimensional Measuren	$660,000	$0	$660,000	$0	$660,000	$100,000	$0	$0	$0	$0		0%	0%
	1991	40. Eastern Michigan University (Coatings)	$301,167	$61,333	$362,500	$85,000	$447,500	$0	$0	$0	$0	$0		0%	0%
		41. Univ. of North Texas (Nanostructure)	$637,000	$5,000	$642,000	$41,400	$683,400	$400,000	$0	$0	$0	$0		45%	0%
		MEAN *3 to 5 YEAR OLDS:*	**$777,161**	**$107,053**	**$884,396**	**$94,618**	**$979,014**	**$46,818**	**$0**	**$2,875**	**$0**	**$0**		**30%**	**7%**
	1992	42. UC Irvine (Image Processing)	$936,000	$139,000	$1,075,000	$300,000	$1,375,000	$0	$200,000	$0	$0	$0		0%	0%
		43. Univ. of Colorado (Thin Film)	$638,225	$54,275	$692,500	$200,200	$892,700	$0	$0	$0	$0	$0		44%	5%
		44. Lehigh (Polymer Interfaces)	$541,055	$12,339	$553,394	$64,500	$617,894	$170,000	$200,000	$0	$0	$0		0%	0%
		45. NCSU (Pest Management)	$383,690	$39,334	$423,024	$164,500	$587,524	$0	$0	$0	$0	$0		47%	10%
		46. Rutgers (Wireless Information)	$1,258,351	$37,647	$1,295,998	$0	$1,295,998	$0	$12,908	$240,480	$0	$0		59%	0%
2 YEARS		47. Villanova (Advanced Communication)	$395,000	$0	$395,000	$280,000	$675,000	$0	$0	$0	$0	$490,000		0%	0%
& LESS		48. Carnegie-Mellon (Building Performance)	$537,462	$137,669	$675,131	$0	$675,131	$0	$0	$0	$0	$0		61%	61%
		49. Arizona St./West. Network (Health Mgmt.)	$385,000	$0	$385,000	$30,600	$415,600	$0	$0	$0	$0	$0		0%	0%
	1993	50. Ohio University (Corrosion)	$525,000	$26,000	$551,000	$115,000	$666,000	$0	$0	$0	$0	$0		44%	0%
	1994	51. Illinois (Machine-Tool Systems)	$427,247	$0	$427,247	$124,000	$551,247	$0	$0	$0	$0	$0		54%	32%
		52. Massachusetts (Polymer Biodegredation)	$422,000	$108,000	$530,000	$64,000	$594,000	$0	$0	$0	$0	$0		20%	20%
		53. NJIT (Emission Reduction)	$1,959,000	$0	$1,959,000	$0	$1,959,000	$0	$0	$0	$0	$0		64%	64%
		54. Rhode Island (Ocean Technology)	$330,010	$22,076	$352,086	$73,800	$425,886	$0	$0	$0	$0	$0		36%	0%
		55. Stanford (Composite Design)	$350,000	$175,000	$525,000	$0	$525,000	$0	$0	$10,000	$10,000	$0		63%	63%
		56. CSM & Purdue (Energy & Power)	$400,000	$0	$400,000	$45,000	$445,000	$0	$0	$0	$0	$0		52%	26%
		MEAN *2 YEARS & LESS:*	**$632,536**	**$50,089**	**$682,625**	**$97,440**	**$780,065**	**$11,333**	**$27,527**	**$17,891**	**$714**	**$35,000**		**36%**	**19%**
		GRAND MEANS:	**$941,996**	**$148,727**	**$1,098,135**	**$127,524**	**$1,216,033**	**$22,373**	**$9,123**	**$30,406**	**$10,089**	**$12,809**		**41%**	**20%**
		GRAND SUMS:	**$51,809,760**	**$8,179,960**	**$61,495,557**	**$6,886,279**	**$66,881,835**	**$1,230,534**	**$437,908**	**$1,459,480**	**$484,275**	**$602,000**		**N/A**	**N/A**

TABLE 4

1993-1994 INDUSTRY MEMBERSHIP DESCRIPTORS

STATUS	YEAR	ABBREVIATED NAME	CURRENT MEMBERS	1993 — 1994 MEMBERS			LIFETIME MEMBERS			FEES		
				STARTING	NEW	LEFT	STARTING	NEW	LEFT	ANNUAL MEMBERSHIP PRIMARY	MEMBER FEE SECONDARY	MEMBER FEE TERTIARY
	1980	1. Mass. (Polymers)	11	12	0	1	13	17	19	40000	•	•
	1981	2. Case Western (Polymers)	10	•	•	•	•	•	•	•	•	•
	1982	3. NCSU (Communication/Signal Proc.)	5	6	2	3	8	15	18	50000	20000	2000
		4. Rutgers (Ceramic)	15	13	2	0	10	32	27	35000	•	•
		5. Georgia Tech. (Materials Handling)	12	10	2	0	•	2	0	40000	20000	•
		6. Penn. State (Dielectrics Studies)	15	15	0	0	18	24	26	20000	5000	•
	1984	7. Colorado School of Mines (Steel)	23	21	2	0	7	24	7	40000	•	•
		8. Washington (Process Analytical Chem.)	35	39	4	8	0	58	39	35000	•	•
		9. NJIT (Hazardous Substance Mgmt.)	22	27	0	5	8	34	14	30000	15000	•
		10. Arizona (Optical)	3	3	1	1	9	4	8	50000	•	•
		11. Northwestern (Engineering Tribology)	8	9	0	1	14	5	11	27500	•	•
		12. Arizona (Microcontamination)	19	17	3	1	26	18	30	40000	10000	•
		13. Northeastern (Electromagnetics)	9	13	0	4	9	6	9	50000	12500	•
SELF-SUSTAINING		14. Lehigh (Chemical Process)	11	11	1	1	0	1	1	30000	•	•
		15. Rutgers (Plastics)	25	25	1	1	15	53	24	60000	30K-60K	6K-30k
	1985	16. Carnegie Mellon (Iron & Steel)	21	22	0	1	11	17	4	45000	32000	•
		17. Lehigh (Innovation)	9	11	0	2	12	5	6	20000	•	•
		18. Texas - Arlington (Adv. Electron Devices)	3	4	0	1	6	5	8	50000	25000	•
		19. Tennessee (Measurement & Control)	18	14	4	3	0	4	3	35000	15000	•
		20. Iowa State (Nondestructive Evaluation)	22	22	1	1	14	13	6	35000	•	•
	1986	21. Oklahoma State (Web Handling)	17	17	2	2	5	19	6	25000	•	•
		22. Alfred (Glass)	25	22	4	1	8	20	4	30000	•	•
		23. New Mexico Inst. (Energetic)	10	11	2	3	9	22	21	30000	20000	•
		24. Florida/Purdue (Software Eng.)	9	10	1	2	10	13	11	30000	•	•
		25. UC Berkeley (Sensors & Actuators)	17	18	1	2	6	20	9	50000	7500	•
	1987	26. Iowa (Simulation & Design)	12	12	1	1	24	5	13	40000	•	•
		27. S. California (Manufacturing)	0	1	0	1	4	3	5	25000	•	•
		28. NCSU (Aseptic Processing)	9	7	2	0	8	8	7	35000	•	•
	1988	29. Colorado (Microwave)	16	8	8	0	10	12	5	50000	25000	•
		30. SUNY at Buffalo (Biosurfaces)	5	4	2	1	6	3	3	40000	•	•
		MEAN "SELF-SUSTAINING:"	13.8	13.9	1.6	1.6	9.6	15.9	11.9	37500	N/A	N/A
	1989	31. Pittsburgh (Intelligence Systems)	5	6	0	1	2	12	5	25000	10000	•
		32. New Mexico (Micro-Engineered Ceramics)	12	10	2	0	8	11	1	30000	10000	•
		33. Brown/Rhode Island (Film)	4	6	0	2	14	3	12	25000	10000	•
3 to 5 YEAR OLDS		34. Calif. - San Diego (Integrated Circuits)	3	3	0	0	6	2	3	50000	25000	•
		35. Ga. Tech./Arizona (Information Mgmt.)	5	4	1	0	6	5	6	40000	•	•
		36. Washington State (Integrated Circuits)	12	9	4	1	11	10	5	30000	•	•
	1990	37. Univ. of Illinois (Air Conditioning)	18	17	2	1	13	9	4	40000	•	•
		38. Univ. of Connecticut (Grinding)	10	7	4	1	7	6	3	50000	12000	•
		39. Univ. of Michigan (Dimensional Measureme	10	10	1	1	8	4	2	50000	•	•
	1991	40. Eastern Michigan University (Coatings)	9	9	1	1	11	6	3	30000	•	•
		41. Univ. of North Texas (Nanostructure)	6	7	1	2	4	4	2	30000	•	•
		MEAN "3 to 5 YEAR OLDS:"	8.5	8.0	1.5	0.9	8.2	6.5	4.2	36364	N/A	N/A
	1992	42. UC Irvine (Image Processing)	8	8	0	0	9	1	3	25000	•	•
		43. Univ. of Colorado (Thin Film)	12	11	1	0	8	4	3	40000	•	•
		44. Lehigh (Polymer Interfaces)	11	11	1	1	10	3	2	35000	•	•
		45. NCSU (Pest Management)	6	6	0	0	7	1	0	25000	•	•
		46. Rutgers (Wireless Information)	28	24	5	1	21	6	3	30000	•	•
2 YEARS & LESS		47. Villanova (Advanced Communication)	9	9	0	0	4	3	1	30000	•	•
		48. Carnegie-Mellon (Building Performance)	16	13	3	0	3	10	0	50000	25000	•
		49. Arizona St./West. Network (Health Mgmt.)	9	10	0	1	6	4	1	35000	•	•
	1993	50. Ohio University (Corrosion)	14	12	3	1	4	7	2	23000	15000	•
	1994	51. Illinois (Machine-Tool Systems)	6	6	0	0	0	0	0	50000	20000	•
		52. Massachusetts (Polymer Biodegredation)	10	6	4	0	0	4	0	30000	•	•
		53. NJIT (Emission Reduction)	10	9	1	0	0	1	0	50000	5000	•
		54. Rhode Island (Ocean Technology)	11	9	2	0	0	2	0	25000	10000	•
		55. Stanford (Composite Design)	5	0	6	1	0	6	1	100000	50000	25000
		56. CSM & Purdue (Energy & Power)	9	0	9	0	0	9	0	50000	•	•
		MEAN "2 YEARS & LESS:"	10.9	8.9	2.3	0.3	5.3	4.3	1.4	39867	N/A	N/A
		GRAND MEANS:	12.0	11.4	1.8	1.1	8.0	10.8	7.4	37918	N/A	N/A
		GRAND SUMS:	671	626	97	62	432	595	406	2085500	N/A	N/A

TABLE 5

1993-1994 HUMAN RESOURCES

			RESEARCHER BREAKDOWN			STUDENTS		ADMINISTRATIVE			
			TOTAL #	# FACULTY	NON-FACULTY	# OF	# OF	PROFESSIONALS		CLERICALS	
STATUS	YEAR	ABBREVIATED NAME	RESEARCHERS	SCIENTISTS	FT	PT	GRADS	UNDERGRAD	FT	PT	FT	PT
	1980	1. Mass. (Polymers)	17	17	0	0	16	0	1	0	0	1
	1981	2. Case Western (Polymers)	15	9	6	0	15	6	0	0	2	0
	1982	3. NCSU (Communication/Signal Proc.)	12	12	0	0	0	0	2	0	2	0
		4. Rutgers (Ceramic)	15	15	0	0	50	15	8	1	5	0
		5. Georgia Tech. (Materials Handling)	42	39	0	3	68	62	1	1	2	1
		6. Penn. State (Dielectrics Studies)	14	6	2	6	7	0	0	2	0	1
	1984	7. Colorado School of Mines (Steel)	6	4	2	0	20	0	1	0	0	1
		8. Washington (Process Analytical Chem.)	22	14	7	1	26	2	5	0	2	1
		9. NJIT (Hazardous Substance Mgmt.)	57	55	2	0	54	10	4	0	3	0
		10. Arizona (Optical)	9	6	0	3	7	1	0	1	0	1
		11. Northwestern (Engineering Tribology)	12	6	5	1	11	0	1	0	1	0
		12. Arizona (Microcontamination)	13	10	0	3	9	2	0	1	1	1
		13. Northeastern (Electromagnetics)	20	15	4	1	15	2	7	0	2	1
SELF-		14. Lehigh (Chemical Process)	10	8	2	0	14	1	1	0	1	0
SUSTAINING		15. Rutgers (Plastics)	6	4	2	0	1	2	4	0	2	0
	1985	16. Carnegie Mellon (Iron & Steel)	7	5	2	0	10	10	4	0	0	8
		17. Lehigh (Innovation)	8	6	2	0	4	0	0	2	1	1
		18. Texas - Arlington (Adv. Electron Devices)	5	4	0	1	8	2	0	1	1	2
		19. Tennessee (Measurement & Control)	14	10	3	1	15	6	1	1	1	2
		20. Iowa State (Nondestructive Evaluation)	15	11	0	4	12	2	0	3	0	3
	1986	21. Oklahoma State (Web Handling)	14	13	1	0	42	3	0	2	0	4
		22. Alfred (Glass)	22	20	0	2	11	3	2	0	1	1
		23. New Mexico Inst. (Energetic)	4	3	0	1	11	20	0	2	1	1
		24. Florida/Purdue (Software Eng.)	22	20	0	2	44	9	1	2	3	4
		25. UC Berkeley (Sensors & Actuators)	11	7	4	0	33	1	1	0	2	1
	1987	26. Iowa (Simulation & Design)	50	9	38	3	74	12	2	0	4	1
		27. S. California (Manufacturing)	4	4	0	0	2	0	0	1	1	0
		28. NCSU (Aseptic Processing)	26	22	4	0	22	16	0	3	0	1
	1988	29. Colorado (Microwave)	3	3	0	0	3	0	0	2	0	1
		30. SUNY at Buffalo (Biosurfaces)	16	12	6	6	4	4	2	1	0	1
		MEAN "SELF-SUSTAINING:"	**16.6**	**12.3**	**3.1**	**1.3**	**20.3**	**6.4**	**1.6**	**0.9**	**1.3**	**1.3**
	1989	31. Pittsburgh (Intelligence Systems)	2	2	0	0	5	0	0	1	0	1
		32. New Mexico (Micro-Engineered Ceramics)	31	11	10	10	35	5	1	0	2	1
		33. Brown/Rhode Island (Film)	9	8	0	1	3	0	0	2	0	1
3 to 5		34. Calif. - San Diego (Integrated Circuits)	8	6	2	0	10	1	1	0	1	1
YEAR OLDS		35. Ga. Tech./Arizona (Information Mgmt.)	8	6	2	0	5	0	1	0	0	1
		36. Washington State (Integrated Circuits)	15	15	0	0	34	0	1	5	1	4
	1990	37. Univ. of Illinois (Air Conditioning)	14	13	1	0	44	28	0	1	1	0
		38. Univ. of Connecticut (Grinding)	22	14	6	2	15	2	4	2	0	2
		39. Univ. of Michigan (Dimensional Measurem	23	8	2	13	14	2	0	2	1	1
	1991	40. Eastern Michigan University (Coatings)	11	7	3	1	6	3	0	2	0	1
		41. Univ. of North Texas (Nanostructure)	12	8	2	2	4	4	0	5	1	0
		MEAN "3 to 5 YEAR OLDS:"	**14.3**	**8.9**	**2.5**	**2.6**	**15.9**	**4.1**	**0.7**	**1.8**	**0.6**	**1.2**
	1992	42. UC Irvine (Image Processing)	14	12	0	2	25	5	1	1	0	1
		43. Univ. of Colorado (Thin Film)	15	14	1	0	14	3	2	0	1	2
		44. Lehigh (Polymer Interfaces)	23	15	3	5	0	1	0	3	1	1
		45. NCSU (Pest Management)	35	32	3	0	10	4	0	1	0	1
		46. Rutgers (Wireless Information)	9	7	2	0	14	5	3	1	2	1
2 YEARS		47. Villanova (Advanced Communication)	8	8	0	0	8	4	1	0	0	1
& LESS		48. Carnegie-Mellon (Building Performance)	6	5	1	0	10	5	2	0	2	0
		49. Arizona St./West. Network (Health Mgmt.)	27	23	1	3	8	0	0	2	0	2
	1993	50. Ohio University (Corrosion)	7	5	1	1	10	4	1	0	0	1
	1994	51. Illinois (Machine-Tool Systems)	15	14	1	0	14	0	0	1	0	1
		52. Massachusetts (Polymer Biodegredation)	9	5	4	0	12	2	2	1	0	0
		53. NJIT (Emission Reduction)	22	20	1	1	23	0	1	0	1	0
		54. Rhode Island (Ocean Technology)	5	4	1	0	4	0	0	0	0	1
		55. Stanford (Composite Design)	3	2	0	1	5	0	1	0	0	1
		56. CSM & Purdue (Energy & Power)	4	3	1	0	4	1	2	0	1	0
		MEAN "2 YEARS & LESS:"	**13.5**	**11.3**	**1.3**	**0.9**	**10.7**	**2.3**	**1.1**	**0.7**	**0.5**	**0.9**
		GRAND MEANS:	**15.2**	**11.4**	**2.5**	**1.4**	**16.9**	**4.8**	**1.3**	**1.0**	**0.9**	**1.2**
		GRAND SUMS:	**849**	**636**	**140**	**80**	**944**	**270**	**72**	**56**	**53**	**65**

TABLE 6
1993-1994 CENTER DIRECTOR DESCRIPTORS

						19 TIME ALLOCATION					20
STATUS	YEAR	ABBREVIATED NAME	DIRECTOR'S RANK	DIRECTOR TENURE	DIRECTOR REPORTS TO	CENTER ADMIN. (%)	OTHER ADMIN. (%)	RESEARCH (%)	TEACHING (%)	OTHER (%)	ADMIN. BUDGET (%)
	1980	1. Mass. (Polymers)	Professor	No	V-Chancellor	100%	0%	0%	0%	0%	28%
	1981	2. Case Western (Polymers)	Professor	Yes	Dean	30%	10%	40%	20%	0%	•
	1982	3. NCSU (Communication/Signal Proc.)	Professor	Yes	Dean	65%	7%	20%	8%	0%	8%
		4. Rutgers (Ceramic)	Professor	Yes	Director	40%	5%	25%	25%	5%	25%
		5. Georgia Tech. (Materials Handling)	Profesor	No	Exce. V.P.	60%	20%	5%	10%	5%	20%
		6. Penn. State (Dielectrics Studies)	Associate Professor	No	Director	30%	10%	40%	20%	0%	20%
	1984	7. Colorado School of Mines (Steel)	Professor	Yes	Dept. Head	20%	10%	30%	10%	0%	20%
		8. Washington (Process Analytical Chem.)	Professor	Yes	V-Pres.	70%	0%	20%	0%	10%	15%
		9. NJIT (Hazardous Substance Mgmt.)	Professor	Yes	V-Pres.	50%	50%	0%	0%	0%	18%
		10. Arizona (Optical)	Professor	Yes	Director	30%	5%	35%	30%	0%	5%
		11. Northwestern (Engineering Tribology)	Professor	Yes	Dean	25%	10%	30%	35%	0%	7%
		12. Arizona (Microcontamination)	Associate Professor	Yes	Department Head	17%	17%	33%	33%	0%	23%
		13. Northeastern (Electromagnetics)	Professor	Yes	Dean	20%	30%	30%	0%	20%	15%
SELF-SUSTAINING		14. Lehigh (Chemical Process)	Professor	Yes	Dean	30%	10%	30%	30%	0%	30%
		15. Rutgers (Plastics)	Professor	Yes	Director	75%	5%	20%	0%	0%	24%
	1985	16. Carnegie Mellon (Iron & Steel)	Professor	Yes	Dean	15%	15%	40%	20%	10%	8%
		17. Lehigh (Innovation)	Professor	Yes	Dean	45%	25%	25%	5%	0%	60%
		18. Texas - Arlington (Adv. Electron Devices)	Professor	Yes	Dean	25%	25%	25%	25%	0%	15%
		19. Tennessee (Measurement & Control)	•	No	Dean	80%	0%	20%	0%	0%	18%
		20. Iowa State (Nondestructive Evaluation)	Professor	Yes	Director	15%	65%	5%	5%	10%	15%
	1986	21. Oklahoma State (Web Handling)	Professor	Yes	Provost	15%	70%	15%	0%	0%	5%
		22. Alfred (Glass)	Professor	Yes	Dean	40%	20%	20%	20%	0%	30%
		23. New Mexico Inst. (Energetic)	Professor	No	V-Pres.	20%	10%	30%	20%	20%	20%
		24. Florida/Purdue (Software Eng.)	Professor	Yes	Dean	50%	0%	25%	25%	0%	30%
		25. UC Berkeley (Sensors & Actuators)	Professor	Yes	Chair	25%	0%	50%	25%	0%	12%
	1987	26. Iowa (Simulation & Design)	Professor	Yes	Dean	25%	25%	25%	25%	0%	10%
		27. S. California (Manufacturing)	Professor	Yes	Dean	5%	15%	40%	20%	20%	10%
		28. NCSU (Aseptic Processing)	Professor	Yes	Dept. Head	0%	0%	80%	20%	0%	12%
	1988	29. Colorado (Microwave)	Professor	No	Dean	20%	50%	15%	15%	0%	21%
		30. SUNY at Buffalo (Biosurfaces)	Professor	Yes	V-Provost	20%	5%	40%	30%	5%	13%
		MEAN "SELF-SUSTAINING:"	**N/A**	**N/A**	**N/A**	**35%**	**17%**	**27%**	**16%**	**4%**	**19%**
	1989	31. Pittsburgh (Intelligence Systems)	Professor	Yes	Dean	10%	0%	40%	50%	0%	10%
		32. New Mexico (Micro-Engineered Ceramics)	Professor	Yes	Provost	30%	10%	30%	20%	10%	15%
		33. Brown/Rhode Island (Film)	Professor	Yes	Dean	10%	0%	80%	0%	10%	6%
3 to 5 YEAR OLDS		34. Calif. - San Diego (Integrated Circuits)	Professor	Yes	Chair	10%	10%	40%	40%	0%	12%
		35. Ga. Tech./Arizona (Information Mgmt.)	Principal Researcher	No	Dean	30%	20%	30%	20%	0%	40%
		36. Washington State (Integrated Circuits)	Professor	Yes	Dean	35%	50%	0%	15%	0%	15%
	1990	37. Univ. of Illinois (Air Conditioning)	Professor	Yes	Head	20%	0%	30%	30%	20%	7%
		38. Univ. of Connecticut (Grinding)	Professor	Yes	Dean	30%	30%	20%	5%	15%	15%
		39. Univ. of Michigan (Dimensional Measureme	Associate Professor	Yes	Dean	15%	15%	40%	30%	0%	10%
	1991	40. Eastern Michigan University (Coatings)	Professor	Yes	Director	33%	0%	59%	8%	0%	4%
		41. Univ. of North Texas (Nanostructure)	Professor	Yes	V-Pres	20%	10%	50%	20%	0%	7%
		MEAN "3 to 5 YEAR OLDS:"	**N/A**	**N/A**	**N/A**	**22%**	**13%**	**38%**	**22%**	**5%**	**13%**
	1992	42. UC Irvine (Image Processing)	Professor	Yes	Dean	20%	5%	35%	25%	15%	5%
		43. Univ. of Colorado (Thin Film)	Professor	Yes	Associate Dean	10%	1%	30%	50%	9%	19%
		44. Lehigh (Polymer Interfaces)	Professor	Yes	Vice Provost	20%	20%	40%	20%	0%	9%
		45. NCSU (Pest Management)	Professor	Yes	Vice Chancellor	50%	0%	38%	12%	0%	15%
		46. Rutgers (Wireless Information)	Professor	Yes	Director	40%	0%	20%	40%	0%	23%
2 YEARS & LESS		47. Villanova (Advanced Communication)	Staff	No	Dean	50%	25%	25%	0%	0%	15%
		48. Carnegie-Mellon (Building Performance)	Professor	Yes	Department Head	10%	0%	20%	70%	0%	20%
		49. Arizona St./West. Network (Health Mgmt.)	Professor	Yes	Associate Dean	25%	0%	40%	35%	0%	21%
	1993	50. Ohio University (Corrosion)	Professor	Yes	Dean	20%	35%	15%	30%	0%	10%
	1994	51. Illinois (Machine-Tool Systems)	Professor	Yes	Dean	10%	10%	40%	40%	0%	15%
		52. Massachusetts (Polymer Biodegredation)	Professor	Yes	Provost	20%	0%	30%	20%	30%	10%
		53. NJIT (Emission Reduction)	•	No	CEES Director	40%	40%	20%	0%	0%	16%
		54. Rhode Island (Ocean Technology)	Staff	No	Vice Provost	30%	50%	0%	0%	20%	15%
		55. Stanford (Composite Design)	Professor	No	Chair	40%	0%	50%	0%	10%	20%
		56. CSM & Purdue (Energy & Power)	Full Professor	Yes	Vice President	20%	10%	20%	20%	30%	20%
		MEAN "2 YEARS & LESS:"	**N/A**	**N/A**	**N/A**	**27%**	**13%**	**28%**	**24%**	**8%**	**16%**
		GRAND MEANS:	**N/A**	**N/A**	**N/A**	**31%**	**15%**	**30%**	**19%**	**5%**	**17%**
		GRAND SUMS:	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**

TABLE 7

1993-1994 INTELLECTUAL PROPERTY

	PERCENT OF CENTERS REPORTING ONE OR MORE					
	INVENTION DISCLOSURES	PATENT APPLICATIONS	SOFTWARE COPYRIGHTS	PATENTS GRANTED	LICENSING AGREEMENTS	ROYALTIES REALIZED
SELF SUSTAINING	38%	34%	14%	23%	17%	10%
Centers Reporting 1 or More	11	10	4	7	5	3
3 TO 5 YEAR OLDS	9%	9%	0%	0%	9%	18%
Centers Reporting 1 or More	1	1	0	0	1	2
2 YEARS AND LESS	47%	13%	0%	7%	0%	0%
Centers Reporting 1 or More	7	2	0	1	0	0
TOTAL PERCENTAGE of Centers Reporting 1 or More	35%	24%	7%	14%	11%	9%
TOTAL Centers Reporting 1 or More	19	13	4	8	6	5
GRAND MEAN	0.8	0.5	0.2	0.3	0.1	0.1
GRAND SUM	44	25	10	14	7	5

APPENDIX

FOOTNOTES: SPECIAL CONSIDERATIONS

Footnotes appear on top of columns and/or at end of rows for each Table and are described in this Appendix.

1) All averages and sums exclude missing data. With the exception of percentages, data from multi-university centers has been aggregated across universities; percentages represent averages for the reporting universities.
2) This report only includes data on Centers which were considered active participants in the NSF IUCRC Program during the past fiscal year. Self-sustaining Centers which are no longer affiliated with the IUCRC program are not included.
3) Authors' address: IUCRC Evaluation Project, Psychology Department, NCSU Box 7801, Raleigh, NC 27695.
By telephone: Voice (919) 515-3237; FAX (919) 515-1716.
4) On Tables 2 and 3, "TOTAL DIRECT" refers to the sum of all direct funding, including: NSF, Industry Member Fees, Other Industry, State, Other, and University Direct funding.
5) On Table 2, "NSF FUNDING" refers to support provided by the IUCRC Program. This includes operating grants, self-sustaining center funding, evaluator supplements, TIE awards, RUI/PUI awards, etc. This Does NOT include support provided by other NSF groups or divisions.
6) On Table 2, "INDUSTRIAL MEMBERSHIP FEES" refers to support from industry derived from membership fees.
7) On Table 2, "OTHER INDUSTRY" refers to any additional support for operations provided by industrial members (e.g., enhancements, contracts, donations, etc.).
8) On Table 2, "STATE" refers to the support provided by state government and/or an agency or program funded by state government.
9) On Table 2, "OTHER" refers to support for Center operations provided by other funding sources, including other divisions in NSF, federal agencies, foundations, national labs, military agencies, etc.
10) On Table 2, "UNIVERSITY DIRECT" refers to actual support for Center operating costs, including: salary, travel, etc. This figure does include overhead returned to Center. However, it does NOT include cost of items like utilities or space, which universities are obligated to provide for all grants.
11) On Table 3, "OVERHEAD CHARGES" refers to the sum of all overhead, including: NSF, Industry Member Fees, Other Industry, State, and Other.
12) On Table 3, "TOTAL BUDGET" refers to the sum of DIRECT FUNDING and OVERHEAD CHARGES. Because one Center provided the total budget but failed to provide direct and indirect breakdowns the grand sums of Columns A + B will not equal Column C.
13) On Table 3, "UNIVERSITY-WAIVED OVERHEAD" refers to the amount of overhead the university has waived by reducing its normal overhead rate.
14) On Table 3, "EFFECTIVE BUDGET" refers to the value of the center's budget if full overhead were collected.
15) On Table 3, "CAPITAL TOTAL FUNDING" includes major capital investments/expenses (e.g., equipment, buildings, building renovations, etc.) over $25,000. Funding for a building should have been reported when the building was occupied.
16) On Table 3, "IN KIND SUPPORT" refers to additional equipment or personnel contributions not reflected in operating budget figures.
17) On Table 4, "FEES" are broken down into primary, secondary, and tertiary (the latter two represent variable membership fees).
18) On Table 5, "FT" means "Full-time" and "PT" means "Part-time."
19) On Table 6, "TIME ALLOCATION" refers to allocation of director's full-time equivalent for budgetary purposes.
20) On Table 6, "ADMIN. BUDGET (%)" refers to the estimated percentage of direct operating budget allocated to administrative salaries, center supplies, telephone, travel and related costs.