

**National Science Foundation
Industry/University
Cooperative Research Centers**

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1999-2000 Process Outcome Survey Results

Descriptive Statistics Compiled from Industry and Faculty Surveys

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REPORT PROCESSING & DATA ISSUES

This report provides basic descriptive statistics on the evaluator Process Outcome Questionnaire. Data was collected during the fall of 2000 and refers to the center activity for FY 1999-2000.

Since most evaluators use this report to benchmark their center compared to a program-wide “norm”, we have reported “center-level” means and standard deviations. Means for each center were used to calculate a center-level mean and are therefore unweighted aggregate means. Because questions that require a numeric answer (e.g. number of dollars) often have highly skewed distributions, we also reported the medians for these variables. For forced choice questions, frequencies and standard deviations for individual respondents were also reported.

Question #6 on the Industrial Member survey (the number of new projects supported by industry and the dollar value of these projects) was reported in three ways. First, we reported the center-level mean, median, and standard deviation for all respondents. Second, we reported a center level mean, median, and standard deviation only for those who reported supporting at least one new project. Finally, an average cost per project was calculated from the figures obtained for those reporting at least one new project.

This year marks the introduction of the Industry Short Questionnaire to the evaluation process. This questionnaire is for use with centers that have surpassed five years of funding (refer to Evaluator’s Notebook, section 3.2.1). Data for the Industry Short Questionnaire is presented in the same format as the regular Industry Questionnaire. Since both questionnaires share some of the same questions, data for these shared questions was pooled for analysis. These questions are marked in the report with a *. An analysis was done and no significant differences were obtained between the regular and short questionnaire in the answers for these questions.

RESPONSE RATES

Category	Center Level		Individual Level	
	Industry	Faculty	Industry	Faculty
<i>Response Frequency</i>				
Population ^a	51	51	753	535
Centers Excused from Evaluation ^{b,c}	8	8	113	104
Available Population	43	43	640	431
Centers who did not return P/O Data	10	10	111	70
Sample	33	27	529	361
Data Received	33	27	290	190
<i>Response Rates</i>				
Received / Population	64.71%	52.94%	38.53%	35.51%
Received / Available Population	76.74%	62.79%	45.31%	44.08%
Received / Sample	100%	100%	54.82%	52.63%

- a. Population was defined as centers that were at least 1 year old.
- b. One center did not have an evaluator.
- c. Centers were excused for reasons such as being in the last year of funding, the center was restructuring, and an alternative evaluation was used.

LONG INDUSTRY FORM VS. SHORT INDUSTRY FORM

	Long Form	Short Form
# of items	45	29
# of questions in common	20	20
# of unique questions	25	9
# of centers using form	20	13
Sample size	168	122

Industry Results: 1999-2000

Table 1: Interest In Research

1. What percentage of Center research projects do you take an active interest in?*

<u>Individual Frequencies</u>										<u>Center Level</u>	
0-19%		20-39%		40-59%		60-79%		80-100%		Mean	S.D.
N	%	N	%	N	%	N	%	N	%		
37	12.9	72	25.2	77	26.9	67	23.4	33	11.5	2.89	0.77

3. How long, on average, do you feel that it should take for a new Center research project to yield tangible results? (in Months)*

Mean	S.D.
16.04	4.79

Table 2: Satisfaction with Research Program

4. During the past year, how satisfied were you with the following features of the Center's research program?

	<u>Individual Frequencies</u>										<u>Center Level</u>	
	Not Satisfied 1		Slightly Satisfied 2		Satisfied 3		Quite Satisfied 4		Very Satisfied 5		Mean	S.D.
	N	%	N	%	N	%	N	%	N	%		
a. Capabilities of faculty and graduate students	0	0.0	1	0.6	14	8.6	79	48.8	68	42.0	4.36	0.40
b. Breadth of the research topics covered *	1	0.4	7	2.5	66	23.3	149	52.7	60	21.2	3.89	0.45
c. Focus of the research *	0	0.0	21	7.4	77	27.2	140	49.5	45	15.9	3.77	0.49
d. Technical quality of research	0	0.0	4	2.5	23	14.3	86	53.4	48	29.8	4.13	0.45
e. Innovative quality of research	2	1.2	6	3.7	39	24.2	80	49.7	34	21.1	3.94	0.57
f. Relevance of research to organizations short-term needs	4	2.5	18	11.4	50	31.6	62	39.2	24	15.2	3.53	0.51
g. Relevance of research to organizations long term needs	1	0.6	5	3.1	36	22.6	80	50.3	37	23.3	3.86	0.52

* = Included in both long and short forms of the IUCRC Industry Questionnaire

FY 1999-2000

Table 3: Follow-On Research

6. During the past year, approximately how many center-stimulated research projects were supported by your organization (include projects contracted to outside performers)? Please estimate the dollar value of all center-stimulated research projects (exclude membership fees).*

	Number	<u>Center Level</u>			Dollar		
		Mean ₁	Median	S.D.	Mean ₂	Median	S.D.
a. New research projects supported by your organization ³ Total Sample: N of Members=290, N of Centers=33	1.64	1.50	1.00	\$121,388	\$41,750	\$162,762	
b. New research projects supported by your organization ⁴ Centers reporting at least 1 project N of Members= 206, N of Centers=25	2.66	2.30	1.71	\$187,579	\$81,667	\$241,217	
c. Average cost of projects for centers reporting at least 1 project ⁵ N of Members= 206, N of Centers=25				\$83,772	\$43,932	\$133,240	

1. # of projects per member
 2. Total dollar value per member
 3. These figures were calculated using aggregate center level data
 4. Calculation only includes respondents that reported funding one or more projects, all others were excluded from analyses.
 5. These figures were calculated by dividing the dollar amounts and the number of projects calculated in step b.

Table 4: Technical Benefits

7. During the past year, to what extent has participation in the Center contributed to the following technical benefits for your organization?

	<u>Individual Frequencies</u>										<u>Center Level</u>			
	Not Satisfied		Slightly Satisfied		Satisfied		Quite Satisfied		Very Satisfied		Not Applicable		Mea	S.D.
	1	2	3	4	5	N/A								
	N	%	N	%	N	%	N	%	N	%	N	%		
Research and Development														
a. Increased your general technical awareness and/or capabilities	2	1.2	13	8.1	73	45.3	56	34.8	16	9.9	1	0.6	3.47	0.52
b. Accelerated or improved existing research projects	19	11.9	30	18.8	60	37.5	33	20.6	8	5.0	10	6.3	3.07	0.59
c. Stimulated new research projects	27	16.8	41	25.5	43	26.7	31	19.3	6	3.7	13	8.1	2.84	0.71
d. Contributed to development of intellectual property in my org.	42	26.6	38	24.1	35	22.2	28	17.7	7	4.4	8	5.1	2.55	0.86
Commercialization														
e. Improvements to existing products, processes, or services	31	19.3	36	22.4	55	34.2	21	13.0	6	3.7	12	7.5	2.60	0.67
f. Development of new products, processes, and/or services	37	23.0	33	20.5	39	24.2	32	19.9	9	5.6	11	6.8	2.69	0.81
g. Improved sales or profitability	69	43.1	26	16.3	25	15.6	8	5.0	6	3.9	26	16.3	2.05	0.92
h. Created or helped maintain jobs in your organization	60	37.7	31	19.5	24	15.1	13	8.2	4	2.5	27	17.0	2.04	0.82

* = Included in both long and short forms of the IUCRC Industry Questionnaire

FY: 1999-2000

Table 5: Other Benefits

10. During the past year, to what extent has participation in the center contributed to the following benefits for your organization?

	<u>Individual Frequencies</u>										<u>Center Level</u>			
	Not Satisfied 1		Slightly Satisfied 2		Satisfied 3		Quite Satisfied 4		Very Satisfied 5		Not Applicable N/A		Mea	S.D.
	N	%	N	%	N	%	N	%	N	%	N	%		
a. Enhanced your ability to recruit talented students	53	32.9	29	18.0	28	17.4	27	16.8	11	6.8	13	8.1	2.34	0.85
b. Improved cooperation with scientists and technical resources outside your organization.	9	5.6	31	19.3	52	32.3	50	31.1	11	6.8	8	5.0	3.24	0.68
c. Improved cooperation with other Center members.	19	11.9	32	20.0	49	30.6	35	21.9	16	10.0	9	5.6	2.95	0.73
	19	11.9	32	20.0	49	30.6	35	21.9	16	10.0	9	5.6	2.95	0.73
11. During the past year, how many students trained in the Center projects were hired by your organization?*													Mean	S.D.
													0.38	0.38

Table 6: Center Administration and Operations

12. During the past year, how satisfied were you with the following features of the Center's administrative operations?

	<u>Individual Frequencies</u>										<u>Center Level</u>	
	Not Satisfied 1		Slightly Satisfied 2		Satisfied 3		Quite Satisfied 4		Very Satisfied 5		Mea	S.D.
	N	%	N	%	N	%	N	%	N	%		
a. Communication between Center staff and your organization	6	3.7	6	3.7	29	18.0	82	50.9	38	23.6	3.79	0.69
b. Center-related proposals, reports and publications (e.g. quality and timeliness)	5	3.1	4	2.5	39	24.4	83	51.9	29	18.1	3.68	0.82
c. Planning and development of the research program (e.g. new projects, changes in research)	4	2.5	13	8.2	52	32.7	71	44.7	19	11.9	3.50	0.65
d. Management of ongoing research projects	1	0.6	7	4.4	52	32.9	83	52.5	15	9.5	3.62	0.58
e. Project selection process	2	1.3	12	7.6	43	27.2	72	45.6	29	18.4	3.64	0.51
f. Technology transfer activities	9	6.0	20	13.2	57	37.7	54	35.8	11	7.3	3.28	0.57
g. Center fundraising (e.g. member recruitment, grant-writing)	2	1.3	12	8.1	64	43.0	58	38.9	13	8.7	3.33	0.58
h. Management of intellectual property issues	2	1.3	9	6.0	49	32.9	66	44.3	23	15.4	3.60	0.42
	2	1.3	9	6.0	49	32.9	66	44.3	23	15.4	3.60	0.42

* = Included in both long and short forms of the IUCRC Industry Questionnaire

Table 7: General Evaluation

14. To what extent are you generally satisfied with the operation and activities of the center?*

<u>Individual Frequencies</u>										<u>Center Level</u>	
Not Satisfied 1		Slightly Satisfied 2		Satisfied 3		Quite Satisfied 4		Very Satisfied 5		Mean	S.D.
N	%	N	%	N	%	N	%	N	%		
1	0.3	6	2.1	67	23.7	166	58.7	43	15.3	3.81	0.50

15. Will your organization renew its membership?*

<u>Individual Frequencies</u>										<u>Center Level</u>	
Definitely Not 1		Probably Not 2		Uncertain 3		Probably Yes 4		Definitely Yes 5		Mean	S.D.
N	%	N	%	N	%	N	%	N	%		
2	0.7	6	2.1	44	15.5	151	53.2	81	28.5	3.95	0.50

Table 8: Membership Information

14. Which ONE of the following categories best describes your division's PRIMARY research area?*

<u>Individual Frequencies</u>										
Category	N	%	Category	N	%	Category	N	%		
Food	5	1.8	Primary Metals	1	0.4	Electrical, Electronic or communication equip.	49	17.7	49	17.7
Textiles or Apparel	1	0.4	Fabricated Metals	2	0.7	Professional or Scientific Instruments	7	2.5		
Lumber, Wood, or Furniture	7	2.5	Machinery	7	2.5	Surgical or Medical Supplies	9	3.2	9	3.2
Paper	2	0.7	Motor Vehicles	9	3.2	Other Manufacturing	25	9.0		
Chemical	31	11.2	Other Transportation	1	0.4	Health Services	5	1.8		
Petroleum	8	2.9	Aircraft or Missiles	11	4.0	Mining	31	11.2		
Rubber	2	0.7	Munitions	3	1.1	Building or Construction	12	4.3		
Stone, Clay, or Glass	18	6.5	Other Military Equipment	9	3.2	Other Non-manufacturing	22	7.9		

* = Included in both long and short forms of the IUCRC Industry Questionnaire

Table 9: Member Descriptives

19. Years organization has been a member of the center?*

<u>Individual Frequencies</u>									
0-1 Years 1		2-3 Years 2		4-5 Years 3		6-7 Years 4		8+ Years 5	
N	%	N	%	N	%	N	%	N	%
54	19.6	74	26.8	63	22.8	33	12.0	52	18.8

20. Organization is? *

	<u>Individual Frequencies</u>	
	N	%
1. For-Profit Large (> 500 employees)	220	78.0
2. For-Profit Small (< 500 employees)	37	13.1
3. Non-Profit/Government	25	8.9

21. Which functional group pays for your organization's membership in this Center?*

	<u>Individual Frequencies</u>	
	N ^a	%
1. Corporate	65	19.7
2. Research	89	27.0
3. Development	20	6.1
4. Engineering	24	7.3
5. Product Development	86	26.1
6. Manufacturing	26	7.9
7. Marketing/Sales	1	1.2
8. Other	16	4.9

a. Multiple responses allowed; N reflects responses not respondents

22. Which of the following best describes your estimate of your division/organization's financial status for the next fiscal year? *

<u>Individual Frequencies</u>									
Significant Cuts 1		Modest Cuts 2		Stable Budget 3		Modest Increases 4		Significant Increases 5	
N	%	N	%	N	%	N	%	N	%
10	4.0	53	21.0	110	43.7	65	25.8	14	5.6

* = Included in both long and short forms of the IUCRC Industry Questionnaire

FY: 1999-2000

Industry Short Results: 1999-2000

Table 1: Research Program

1. What percentage of Center research projects do you take an active interest in?*

<u>Individual Frequencies</u>										<u>Center Level</u>	
0-19%		20-39%		40-59%		60-79%		80-100%		Mean	S.D.
N	%	N	%	N	%	N	%	N	%		
37	12.9	72	25.2	77	26.9	67	23.4	33	11.5	2.89	0.77

3. How long, on average, do you feel that it should take for a new Center research project to yield tangible results? (in Months)*

Mean	S.D.
16.04	4.79

4. During the past year, how satisfied were you with the following features of the Center's research program?

	<u>Individual Frequencies</u>										<u>Center Level</u>	
	Not Satisfied 1		Slightly Satisfied 2		Satisfied 3		Quite Satisfied 4		Very Satisfied 5		Mean	S.D.
	N	%	N	%	N	%	N	%	N	%		
a. Capabilities of researchers and quality of research program	0	0.0	2	1.6	18	14.8	67	54.9	35	28.7	4.13	0.33
b. Breadth of the research topics covered *	1	0.4	7	2.5	66	23.3	149	52.7	60	21.2	3.89	0.45
c. Focus of the research *	0	0.0	21	7.4	77	27.2	140	49.5	45	15.9	3.77	0.49
d. Relevance of research to organization's needs	2	1.6	18	14.8	40	32.8	52	42.6	10	8.2	3.46	0.50

* = Included in both long and short forms of the IUCRC Industry Questionnaire

FY: 1999-2000

Table 2: Benefits

6. During the past year, approximately how many center-stimulated research projects were supported by your organization (include projects contracted to outside performers)? Please estimate the dollar value of all center-stimulated research projects (exclude membership fees).*

	Number		<u>Center Level</u>		Dollar	
	Mean ₁	Median	S.D.	Mean ₂	Median	S.D.
a. New research projects supported by your organization ³ Total Sample: N of Members= 290 , N of Centers=33	1.64	1.50	1.00	\$121,388	\$41,750	\$162,762
b. New research projects supported by your organization ⁴ Centers reporting at least 1 project N of Members= 206 , N of Centers=25	2.66	2.30	1.71	\$187,579	\$81,667	\$241,217
c. Average cost of projects for centers reporting at least 1 project ⁵ N of Members= 206 , N of Centers=25				\$83,772	\$43,932	\$133,240

1. # of projects per member
2. Total dollar value per member
3. These figures were calculated using aggregate center level data
4. Calculation only includes respondents that reported funding one or more projects, all others were excluded from analyses.
5. These figures were calculated by dividing the dollar amounts and the number of projects calculated in step b.

7. During the past year, how many students trained in the Center projects were hired by your organization?*

	Mean	S.D.
	0.38	0.54

8. During the past year, to what extent has participation in the Center contributed to the following technical benefits for your organization?

	<u>Individual Frequencies</u>										<u>Center Level</u>			
	Not Satisfied		Slightly Satisfied		Satisfied		Quite Satisfied		Very Satisfied		Not Applicable		Mea	S.D.
	1	2	3	4	5	N/A								
N	%	N	%	N	%	N	%	N	%	N	%			
a. Research and Development: Enhanced via increased technical awareness, accelerated or new projects or development of intellectual property in my org.	5	4.2	21	17.5	50	41.7	36	30.0	6	5.0	2	1.7	3.35	0.55
b. Commercialization: Enhanced via improved or new products processes, services, improved sales, or new or retained jobs	42	35.0	36	30.0	26	21.7	6	5.0	0	0.0	10	8.3	2.77	1.09
c. Professional Networking: Enhanced via improved ability to recruit students, increased cooperation with other industrial members/scientists outside org.	1	0.8	14	11.7	46	38.3	41	34.2	13	10.8	5	4.2	3.70	0.53

* = Included in both long and short forms of the IUCRC Industry Questionnaire

FY: 1999-2000

Table 3: Center Administration and Operations

11. During the past year, how satisfied were you with the Center's administrative operations?

<u>Individual Frequencies</u>								<u>Center Level</u>			
Not Satisfied 1		Slightly Satisfied 2		Satisfied 3		Quite Satisfied 4		Very Satisfied 5		Mean	S.D.
N	%	N	%	N	%	N	%	N	%		
7	6.0	3	2.6	25	21.4	60	51.3	22	18.8	3.64	0.73

Table 4: General Evaluation

13. To what extent are you generally satisfied with the operation and activities of the center?*

<u>Individual Frequencies</u>								<u>Center Level</u>			
Not Satisfied 1		Slightly Satisfied 2		Satisfied 3		Quite Satisfied 4		Very Satisfied 5		Mean	S.D.
N	%	N	%	N	%	N	%	N	%		
1	0.3	6	2.1	67	23.7	166	58.7	43	15.3	3.81	0.50

15. Will your organization renew its membership?*

<u>Individual Frequencies</u>								<u>Center Level</u>			
Definitely Not 1		Probably Not 2		Uncertain 3		Probably Yes 4		Definitely Yes 5		Mean	S.D.
N	%	N	%	N	%	N	%	N	%		
2	0.7	6	2.1	44	15.5	151	53.2	81	28.5	3.95	0.50

Table 5: Membership Information

14. Which ONE of the following categories best describes your division's PRIMARY research area?*

<u>Individual Frequencies</u>									
Category	N	%	Category	N	%	Category	N	%	
Food	5	1.8	Primary Metals	1	0.4	Electrical, Electronic or communication equip.	49	17.7	
Textiles or Apparel	1	0.4	Fabricated Metals	2	0.7	Professional or Scientific Instruments	7	2.5	
Lumber, Wood, or Furniture	7	2.5	Machinery	7	2.5	Surgical or Medical Supplies	9	3.2	
Paper	2	0.7	Motor Vehicles	9	3.2	Other Manufacturing	25	9.0	
Chemical	31	11.2	Other Transportation	1	0.4	Health Services	5	1.8	
Petroleum	8	2.9	Aircraft or Missiles	11	4.0	Mining	31	11.2	
Rubber	2	0.7	Munitions	3	1.1	Building or Construction	12	4.3	
Stone, Clay, or Glass	18	6.5	Other Military Equipment	9	3.2	Other Non-manufacturing	22	7.9	

* = Included in both long and short forms of the IUCRC Industry Questionnaire

FY: 1999-2000

Table 6: Member Descriptives

19. Years organization has been a member of the center?*

<u>Individual Frequencies</u>									
0-1 Years 1		2-3 Years 2		4-5 Years 3		6-7 Years 4		8+ Years 5	
N	%	N	%	N	%	N	%	N	%
54	19.6	74	63.0	63	22.8	33	12.0	52	18.8

20. Organization is? *

	<u>Individual Frequencies</u>	
	N	%
1. For-Profit Large (> 500 employees)	220	78.0
2. For-Profit Small (< 500 employees)	37	13.1
3. Non-Profit/Government	25	8.9

21. Which functional group pays for your organization's membership in this Center?*

	<u>Individual Frequencies</u>	
	N ^a	%
1. Corporate	65	19.7
2. Research	89	27.0
3. Development	20	6.1
4. Engineering	24	7.3
5. Product Development	86	26.1
6. Manufacturing	26	7.9
7. Marketing/Sales	1	1.2
8. Other	16	4.9

a. Multiple responses allowed; N reflects responses not respondents

22. Which of the following best describes your estimate of your division/organization's financial status for the next fiscal year? *

<u>Individual Frequencies</u>									
Significant Cuts 1		Modest Cuts 2		Stable Budget 3		Modest Increases 4		Significant Increases 5	
N	%	N	%	N	%	N	%	N	%
10	4.0	53	21.0	110	43.7	65	25.8	14	5.6

* = Included in both long and short forms of the IUCRC Industry Questionnaire

FY: 1999-2000

Faculty Results: 1999-2000

Table 1: Research Program

1. Compared to the research projects which you typically conduct outside the Center, would you describe your Center-funded research as:

	<u>Individual Frequencies</u>								<u>Center Level</u>			
	Much more Basic (1)		More Basic (2)		Same (3)		More Applied (4)		Much More Applied (5)		Mean	S.D.
a.	N	%	N	%	N	%	N	%	N	%		
	0	0.0	17	9.2	92	49.7	65	35.1	11	5.9	3.40	0.33
	Much Broader in Scope		Broader (2)		Same (3)		Narrower (4)		Much Narrower In Scope (5)		Mean	S.D.
	b.	N	%	N	%	N	%	N	%			
	3	1.6	33	17.8	81	43.8	63	34.1	5	2.7	3.12	0.51
	Much Longer Time Frame		Longer (2)		Same (3)		Shorter (4)		Much Shorter Time Frame (5)		Mean	S.D.
	c.	N	%	N	%	N	%	N	%			
	3	1.6	26	14.3	73	40.1	69	37.9	11	6.0	3.34	0.41

Table 2: Knowledge Production

6. During the past year:

	Total Number		<u>Center Level</u> Number w/ member scientists		Number w/ students	
	Mean	S.D.	Mean	S.D.	Mean	S.D.
a. How many PUBLICATIONS in the open literature have you had based on Center research?	3.01	1.99	1.71	1.69	2.64	1.86
b. How many PRESENTATIONS have you made at conferences/professional meetings based on Center research	4.15	2.78	1.75	1.74	3.11	2.60
	Number Completed During Last Year		Number in			
	Mean	S.D.	Mean	S.D.		
c. How many THESES/DISSERTATION based on Center research are under your supervision	0.85	0.50	2.00	1.72		
3. How long, on average, do you feel that it should take for Center research project to yield tangible results? (in Months)					Mean	S.D.
					18.64	6.33

FY: 1999-2000

Table 3: Investigator Outcomes

4. What impact has participation in the Center had for you in the following areas?

	<u>Individual Frequencies</u>										<u>Center Level</u>	
	Very Negative Impact		Moderately Negative Impact		No Impact		Moderately Positive Impact		Very Positive Impact		Mean	S.D.
	1		2		3		4		5			
N	%	N	%	N	%	N	%	N	%			
a. Opportunities for consulting	0	0.0	3	1.6	101	53.4	71	37.6	14	7.4	3.52	0.32
b. Opportunities for research contracts	0	0.0	1	0.5	40	21.1	100	52.6	49	25.8	4.11	0.32
c. Access to equipment	0	0.0	2	1.1	74	39.2	73	38.6	40	21.2	3.83	0.37
d. Trust/Confidence in Industry	0	0.0	3	1.6	50	26.6	99	52.7	36	19.1	3.92	0.36
e. My evaluation of the quality of industrial research	1	0.5	3	1.6	72	38.3	84	44.7	28	14.9	3.77	0.38
f. Chances for promotion, and/or salary increases	0	0.0	2	1.1	94	50.3	67	35.8	24	12.8	3.63	0.36
g. Amount of interaction with other faculty	0	0.0	2	1.1	3	50.3	4	35.8	5	12.8	4.05	0.34
h. Ability to support graduate student theses/dissertations	0	0.0	1	0.5	36	19.4	88	47.3	61	32.8	4.15	0.38
i. Amount of autonomy in conducting research	1	0.5	18	9.5	90	47.6	54	28.6	26	13.8	3.48	0.42
j. Ability to publish research in a timely fashion	2	1.1	14	7.5	95	51.1	47	25.3	28	15.1	3.51	0.41

Table 4: Perceived Industry Benefits

5. During the past year, how much impact do you believe YOUR RESEARCH had on the following technical benefits for Center members?

	<u>Individual Frequencies</u>										<u>Center Level</u>	
	No Impact		Slight Impact		Moderate Impact		High Impact		Very High Impact		Mean	S.D.
	N	%	N	%	N	%	N	%	N	%		
a. Research and Development efforts	14	7.6	36	19.6	66	35.9	58	31.5	10	5.4	3.12	0.48
b. Commercialization of products, processes, and/or services	44	25.3	45	25.9	61	35.1	16	9.2	8	4.6	2.39	0.49

FY: 1999-2000

Table 5: Satisfaction

7. During the past year, how satisfied were you with the following features of the Center?

	<u>Individual Frequencies</u>										<u>Center Level</u>	
	Not Satisfied		Slightly Satisfied		Somewhat Satisfied		Quite Satisfied		Very High Impact		Mean	S.D.
	N	%	N	%	N	%	N	%	N	%		
a. Quality of the research program	1	0.5	8	4.4	40	22.0	88	48.4	45	24.7	3.95	0.47
b. Relevance of the research program to industry's needs	0	0.0	4	2.2	31	17.0	77	42.3	70	38.5	4.21	0.38
c. Center administration and operations	3	1.6	9	4.9	29	15.9	83	45.6	58	31.9	3.95	0.71

Table 6: Faculty Descriptives

9. What is your academic rank?

	<u>Individual Frequencies</u>	
	N	%
1. Assistant Professor	29	15.3
2. Associate Professor	50	26.5
3. Full Professor	83	43.9
4. Other	27	14.3

10a. Are you tenured?

	<u>Individual Frequencies</u>	
	N	%
1. Yes	124	66.0
2. No	64	34.0

10b. If NO, are you in a tenure track position?

	<u>Individual Frequencies</u>	
	N	%
1. Yes	29	46.0
2. No	34	54.0

FY: 1999-2000