Survey of Institutional Patent Policies and Patent Administration

The following document is based on a survey taken by the Society of University Patent Administrators in 1977. Subjects of the survey were the patent policies of universities with employees who are members of the Society. As far as can be determined, this is the first such survey since the publication in 1962 by the National Academy of Sciences—National Research Council of University Research and Patent Policies, Practices and Procedures. The latter document is primarily a compilation of patent policies exactly as furnished by the institutions surveyed.

The 1977 survey was undertaken because of a growing interest in patents and the perception of a need for an up-to-date survey of patent policies which would be composed of carefully prepared questions and would provide analysis of the replies. The questionnaire used in this survey is based on one that was tested at six institutions and further refined before distribution. (A copy of the questionnaire is included as Appendix A; responding institutions are listed in Appendix B.)

Forty-eight major research institutions provided information for this document. The answers to the survey questions have been tabulated and the implications of these results are discussed. It will be noted that there is a wide variety of answers to certain questions, which is a result of the differences in institutional organization and practices. In some cases there are multiple answers to one question by the same institution. In questions involving titles, where many variations are possible, the answers have been grouped by titles that are considered to be equivalent. Where only one institution has responded in a particular way to a particular question, such answers generally have been grouped as "other."

Although a number of institutions that were surveyed did not reply (a few with large patent portfolios), the information provided and analyzed should be largely representative of the general community of research universities.

- 1. Name of institution (see Appendix B).
- 2. Who authorized the institution's patent policy?

(a)	Trustees, regents, or equivalent	37
(b)	President, chancellor, or equivalent	5
(c)	Faculty	2
(d)	Other (such as state law or	
	state agency)	- 4

Where an institution checked more than one answer, this has been interpreted to mean that more than one body acted on the policy. In such cases, only the highest-ranked body was counted.

3. What office administers the patent policy?

Research administration office	18
Vice president or dean of research	10
Research foundation	. 8

Vice president for administration	
vice president for administration	3
Patent committee	3
Patent office	3
Other	3
	48
	10
To whom is the office in (3) above resp sible?	on-
Vice president, vice chancellor.	
	24
	12
	3
,	3
	3
	3
	48
Is there a patent committee?	
Van	34
선생님은 사람들이 가장 아이들이 얼마나 되었다.	14
and the second section of the second	48
mittee?	om-
	23
	7
	4
	34
	To whom is the office in (3) above respectible? Vice president, vice chancellor, provost, or similar officer President Trustees Director of foundation Dean Other Is there a patent committee? Yes No

This question received multiple answers and all functions may not have been described. For example, some patent committees may be involved in arbitration (see 16 below) but this item was mentioned only once.

Make decisions on patenting inventions

Negotiate license arrangements

26

2

5

71

8.	Does	the	patent	policy	cover:
			P	,,,,,,	

(a)	Faculty	47
(b)	Professional staff	47
(c)	Nonprofessional staff	43
(d)	Graduate students employed by institution	46
(e)	Graduate students not employed by institution	•••
(f)	Undergraduates employed by	25
(g)	institution Undergraduates not employed by	42
	institution	21

Of the institutions responding, one had not yet adopted a patent policy, which accounts for the maximum number of 47 rather than 48. The significant decrease in coverage for both graduate and undergraduate students not employed by the institution probably relates to the fact that employment (and thus the payment of salary) is used in many cases as the basis for a university claim to equity in inventions, rather than the provisions of funds or facilities (see 15 below).

9. By which of the following does the institution control the disposition of patent rights (with the understanding that a sponsor may subsequently take control)?

	Taking title to inventions	36
(b)	Directing or approving disposition	frii.
	by inventors	11
(c)	The voluntary referral of an	
May D	invention to the institution if	
e]wi-	there is no sponsor requirement	11
		58

Eight institutions checked both (a) and (b), which may mean that the policy is covered by (b), but that in some cases the inventor is required or elects to give title to the institution as provided for under (a). However, two of these eight institutions also checked (c), possibly an attempt to cover both inventions in which the institution has an equity and those in which it does not (see 15 below). The remaining nine institutions in category (c) constitute a large number in which the institution exercises no control at all (unless there is a sponsor requirement).

Other

A policy as in (b) of directing or approving disposition by inventors provides much greater flexibility than that listed in (a). Under (b), title can be directed to the institution, to a patent management firm, or to the government or another sponsor without the necessity of title first going to the institution.

10. Does the institution enter into agreements with possible inventors (see 8 above) to establish patent rights? Complete only one response:

(a)	For all possible inventors 16
(b)	For all possible inventors who
	participate in sponsored research 8
(c)	For all possible inventors who
	are employed 14
(d)	For all possible inventors who
er er er Kanada	are employed only in sponsored
y	research 6
(e)	No agreements with anyone 4
	48

The twenty-four institutions responding affirmatively to (a) or (b) are well covered insofar as the requirements of sponsored research, particularly government-sponsored research, are concerned. Institutions covered by (c) and (d) are not fully meeting the obligations of sponsored research, since these obligations extend to all persons who participate in or perform part of the work, not only those who are employed by and paid from a grant or contract. The four institutions responding affirmatively to (e) are not in compliance unless the terms of the applicable patent policy can be held to be as legally binding as an individual agreement.

For inventions that result from research which is not sponsored, the thirty institutions designating (a) or (c) are all fairly well covered, except that (c) would not apply, for example, to a graduate student who makes an invention but is not employed by the institution. Among the other seventeen respondents there is a gap that is partly explained by the eleven who responded to 9(c) above (in which referral of an invention to the university is entirely voluntary unless there are sponsored research requirements).

11. Does the institution use, or have its administrators considered using a single agreement to cover both patents and copyrights?

Yes		, .	13
No	••		 35
			48

12. Are one or more patent management firms used? If so, give names.

Yes		40
No	in the property of the propert	8
	Constitution of the consti	48

Research Corporation was predominant, followed at a distance by Battelle, University Patents, Inc., and others.

13. If a decision is made in the institution (not by a patent management firm) to make a patent application, who makes the decision?

	Patent committee	11
	Research administration office	9
	Associate provost, vice president, or dean for research	9
	Research foundation	4
	President	3
	Vice president for business or finance	2
	Patent office	2
•	Other (such as state, governing	
	board, inventor)	5
	No answer	3
		48

14. Does the institution's patent policy require reporting by those covered by the policy (see 8 above) of:

(a).	All inventions, even if there is no	ž.
	institutional or sponsor equity	. 19
(b)	All inventions on which patents are	
	applied for, even though there is no	
	institutional or sponsor equity	5
(c)	All inventions where there is some	
	institutional or sponsor equity	19
(d)	Only those inventions that must	

be reported to a sponsor

5

Institutions that are diligent in pursuing technology transfers and public use of their inventions probably fall into group (a).

15. What is the basis of the institution's claim for institutional equity in an invention? That is, what is the legal consideration for the institution to obtain rights?

(a)	Payment of salary or stipend	29
(b)	Provision of funds or facilities	34
(c)	Other (such as patent services	
	furnished to inventor or state	
	legal requirements)	7
:		

Twenty-two institutions checked more than one of the answers. Twenty-one of these responded to both (a) and (b). There is a question as to whether the citation of salary or stipend as a consideration for patent rights is reasonable or even legally enforceable. Faculty are not employed to develop patentable inventions, their salaries and promotions are not based on the value of inventions they may make, and where they have tenure, according to Blackwell, "the agreement by the college to continue to employ them would not, so far as they are concerned, constitute consideration."2

The provision of funds and facilities for research does not have the handicap of (a) above and can be used for both employed and non-employed inventors (such as students). Further, the institution would have no equity (unless the inventor would choose to handle it through the institution) in an invention whose conception or reduction to practice does not involve institutional funds or facilities.

16. Is arbitration or some other form of decisionmaking provided for in the event of a disagreement as to the institution's equity or rights in an invention?

	:				
Yes					27
No	BOUT OF S	$(x,x') \in \mu(x'')$	15.0000		21
4.55	payments.	100	er de la company	Carlotte Control	
		1.5	4 4		48

¹ See Blackwell, T. E. College Law. (Washington, D.C.: American Council on Education, 1961.) pp. 175-180, "The Administration of Faculty Patents."

² Ibid, p. 179.

The absence of arbitration provisions in twentyone institutions is somewhat surprising.

17. Does the institution ever relinquish to the inventor its rights to an invention?

Yes		 1.5 Area (1.5)	AΛ
			40
No			8
		i synthyddiai	
			48

If so, under what circumstances?

Miscellaneous answers included cases in which sponsor and institution chose not to patent.

18. Does the institution ever handle for inventors those inventions in which it has no equity?

Yes		 	Ì		14	4			22
No							., .	 1	26
		 	 -	٠		.:	ř		48

If "yes," what are the conditions?

Miscellaneous answers included paying more than normal royalties to the inventor.

19. If the institution retains patent rights for inventions, what share of royalties is paid to the inventor(s)? Net or gross?

Maximum possible	1
Net 80% scaled down to 25% as total	
royalty increases	2
Gross 50% plus first \$3,000, then	
25% to \$13,000, then 15%	2
Net 60% 0-\$25,000; 50% \$25,000-	
\$50,000; 40% \$50,000-\$75,000;	
30% above \$75,000	1
Net 50% plus first \$1,000 of	
institution's net	1
Gross 15% plus 50% of additional net	1
Net 50%	б
Net 50% or gross 25%	1
Net 50% maximum, 20% minimum by	
arbitration	I
Net 50% after first \$5,000 net	1
Net 50% until expenses, then 20%	
of gross	i
Net 42.5%	1
Net 40%	1
· · · · · · · · · · · · · · · · · · ·	

Gross 15% until	costs recovered,
then 40% net	and the state of t
Net 33%	· 中国新疆、1000年代
Gross 28%	
Net 25%	
Gross 20%	
Gross 15%	
Net 15%	
Case by case	
No answer	化二氯化二甲酚 医电子动脉 化二氯磺基甲酚 医二氯甲酚

Although the difference between gross and net royalties varies widely from patent to patent, the answers to this question are listed such that the amounts to inventors decrease in order of total royalties from top to bottom. The median answer is 33% of net royalty income for the inventor. Royalty shares to inventors appear to have increased significantly since the 1962 survey referred to at the beginning of this document. The method of giving the inventor a large initial share and decreasing on a sliding scale (indicated in five of the answers) has the merit of providing a climate of greater cooperation among researchers by reducing the potential rewards to the one researcher who is named the legal inventor.

20. What disposition is made of the institution's share of royalties?

Research				26
General inst	titutional fu	unds		. 10
Research an	id patent co	osts		6
Education a	ind researc	h		3
Patent costs	,			2
Other	i i i i i i i i i i i i i i i i i i i		and the second of the second o	1
				48

21. What steps, if any, are taken to insure that all inventions are properly disclosed?

None (although the patent policy	y may	
so require)	2	3
Regulations	1	1
Periodic reminders		8
Periodic meetings		5
Special educational program		4

Annual	invention	statement		. 3
Other			an than y light	2
				56

Eight institutions used more than one method of obtaining invention disclosures. It is likely that a greater number used more than one method but did not indicate this.

22. Does the institution have any institutional patent agreements (IPAs) with federal agencies? If so, list the agencies.

Both HEW and NSF	10
HEW only	11
NSF only	Signal (v. 15. d. 3
ingasi maa mata j	24

Note that more than half of the responding institutions have no IPAs.

23. In negotiating sponsored research agreements with industry, does the institution accept requirements for sponsor to obtain:

(a)	Title to all inventions		27
(b)	Exclusive license		26
(c)	Exclusive license for limit	ted period	26
(d)	Exclusive license for limi	ted period	. 1
a situation	with march-in rights for I	ack of	.:
	diligence		28
(e)	Nonexclusive license	Same Same	31
(f)	Other	en er	7
Mariana	College March 1980 College	1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	45

Many institutions indicated more than one answer; three questions were the average number of these. The number of (a) and (b) answers could cause concern about the diligence of institutional endeavors for protection of the public interest. Where title to inventions is given to a sponsor as in (a), the inventor's normal share of royalties under a patent policy presumably disappears.

24. Under the arrangements described in (23) above, is there any provision for royalties or other reimbursement to the institution, such as increased indirect costs?

Royalties	April 6 per 1	21
Increased indirect costs		 17

469

None <u>10</u>

As in 23(a) above, where the compensation to the institution for patent rights consists of increased indirect costs or is nonexistent, the inventor's share of royalties presumably disappears.

25. For inventions owned or controlled by the institution and not assigned to a patent management organization, which of the categories of (23) above best describe the institution's policies for assignment or licensing?

(a)	Title to all inventions	3
(b)	Exclusive license	11
(c)	Exclusive license for limited period	8
	Exclusive license for limited period with march-in rights for lack of	
-	diligence	19
(e)	Nonexclusive license	. 13
(f)	Other:	5
		59

Only eleven institutions indicated more than one answer. Note that many more of the responding institutions indicated willingness to give greater rights to a research sponsor (see 23 above) than to a licensee or assignee.

26. How many patents were applied for on the institution's inventions during the last ten years by:

(a)	Inventor 165	(known)
(b)	Institution 889	
(c)	Patent management	1
	organization 554	
(d)	Industrial sponsor 119	25.
(e)	Government sponsor 60 ((known)
	1787	**

Although the number for any one institution varies from 1 to 150 for the total of categories (a) through (e) combined, the average is 37 per institution, or about 4 per year per institution. While this may not appear to be a large number, over a ten-year period the total of 1787 for all institutions is significant.

27. How many of the patents listed in (26) above were issued? 937

28. How many of the patents that were issued (see 27 above) were licensed?

These answers indicate a high ratio—fifty percent—of patents licensed to patents issued.

APPENDIX A: UNIVERSITY PATENT POLICIES AND PATENT ADMINISTRATION QUESTIONNAIRE

- 1. Name of Institution
- 2. Who authorized your patent policy?
 - a. Trustees or regents.
 - b. Faculty
 - c. President or chancellor
 - d. Other (please specify)
- 3. What office administers the patent policy?
- 4. To whom is that office responsible?
- 5. Is there a patent committee?
- 6. What is its composition?
- 7. What are the functions of the patent committee?
- 8. Does the patent policy cover:
 - a. Faculty
 - b. Professional staff
 - c. Nonprofessional staff
 - d. Graduate students employed by university
 - e. Graduate students not employed by university
 - f. Undergraduates employed by university
 - g. Undergraduates not employed by university
- Does your institution control the disposition of patent rights by either (it is understood that a sponsor may subsequently take control):

Taking title to inventions

- Or directing or approving disposition by inventors
- Or is the referral of an invention to the university voluntary if there is no sponsor requirement
- Do you enter into agreements with possible inventors (see 8 above) to establish patent rights (complete only one response)
 - a. For all possible inventors from 8 above (specify a, b, c, d . . . etc)
 - b. For all possible inventors from 8 who participate in sponsored research (specify a, b, c . . . etc)
 - c. For all possible inventors from 8 who are employed (specify a, b, c . . . etc)
 - d. For all possible inventors from 8 who are employed *just* in sponsored research (specify a, b, c . . . etc)
- 11. Do you or have you considered using a single agreement to cover both patents and copyrights?
- 12. Is one or more patent management firm utilized and if so give names?
- 13. If the institution (not a patent management firm) decided to make a patent application, what office makes this decision?
- 14. Does your patent policy require reporting by those covered by the policy (see 8) of:
 - a. All inventions made even though there is no institutional or sponsor equity, or
 - All inventions made on which patents are applied for, even though there is no institutional or sponsor equity, or
 - c. All inventions made where there is some institutional or sponsor equity, or
 - d. Only those inventions made which must be reported to a sponsor
- 15. What is the basis of the institution's claim for institutional equity in an invention, i.e.

- what is the legal consideration for the university to obtain rights?
- a. Payment of salary or stipend
- b. Provision of funds or facilities
- c. Other
- 16. Is arbitration or some other form of decisionmaking provided for in the event of a disagreement as to the institution's equity or rights in an invention?
- 17. Does the institution ever relinquish its rights to an invention back to the inventor? If yes, under what circumstances?
- 18. Does the institution handle inventions for inventors in which it has no equity? If yes, what are the conditions?
- 19. If the institution retains patent rights for inventions, what share of royalties is paid to inventor(s)? Net or gross?
- 20. What disposition is made of institution's share of royalties?
- 21. What steps if any are taken to assure that all inventions are properly disclosed?
- 22. Does your institution have any institutional patent agreements (IPAs) with federal agencies? If so, list agencies
- 23. In negotiating sponsored research agreements with industry, do you accept requirements for sponsor to obtain:
 - a. Title to all inventions
 - b. Exclusive license
 - c. Exclusive license for limited period
 - d. Exclusive license for limited period with march-in rights for lack of diligence
 - e. Nonexclusive license
 - f. Other
- 24. Under the arrangements described in 23 above, is there any provision for royalties or other reimbursement to the university, such as increased indirect costs?

- 25. For inventions owned or controlled by the institution and not assigned to a patent management organization, which of the categories of 23 above best describe the institution's policies for assignment or licensing?
- 26. How many patents were applied for on your institution's inventions during the last ten years by:
 Inventor
 Institution
 Patent Management Organization
 Industrial Sponsor
 Government Sponsor
- 27. How many of the above patents issued?
- 28. How many of the patents in 27 were licensed?

Appendix B: Institutions Responding to Patent Survey

University of Akron Ball State University **Boston College** Brown University University of California System California Institute of Technology University of Cincinnati Colorado State University Research Foundation Concordia University University of Connecticut Cornell University University of Dayton University of Delaware University of Denver University of Georgia University of Guelph University of Houston

University of Illinois at Urbana-Champaign University of Iowa University of Kansas Kansas State University Kent State University University of Kentucky Universite Laval University of Maryland University of Michigan University of Minnesota University of Mississippi University of Nebraska University of New Mexico Research Foundation of State University of New York University of Oklahoma University of Oregon Princeton University **Purdue University** Rockefeller University **Rutgers University** Salk Institute Simon Fraser University University of Southern California Southern Illinois University Texas A&M Research Foundation University of Toledo University of Virginia Virginia Polytechnic Institute and State University Washington State University University of Wisconsin Yale University

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