MEMO

FROM: David Houser

TO: Bob Bock

DATE: November 8, 1989

RE: Patents issued

The other day, you gave me an article that set forth the number of patents issued to various universities. You and I wondered what WARF's statistics were for the same years. I obtained the following information:

	US Patents	Foreign Patents	Total Patents Issued
In 1986:	18	50	68
In 1987:	10	41	51
In 1988:	22	33	55

It is not clear from the article whether the figures cited in it relate to all patents or only to US patents, so it really is not possible to make direct comparisons with the article's figures. The totals roughly compare with the University of California and with Stanford.

If a patent issues in any given year, it was filed anywhere from two to five years previous to that date. Therefore, a better measure of a university's activity in a given year would be the number of filings made. Those figures cannot be gathered from public sources. In any event, year-to-year differences in issued patents, at least in a mature program such as WARF's, appear not to be particularly significant. I do not believe, for example, that the shifts in the totals for WARF from 1986 to 1988 reflect anything more than chance variation. One would expect that a program just starting would tend to ramp up in years three and following until a full portfolio of pending patent applications existed that would yield issued patents at whatever rate corresponded to the technological production of that university. Needless to say, increasing patent awareness by the efforts of a UIR and folks such as John Wiley can cause fewer inventions to be lost because of inventor ignorance or inattention, and that can lead to more patents from the same amount of technological production.

The business of foreign filings is another point of difference. Not everyone chooses to place the emphasis on them that WARF has. I understand that some university patent and licensing groups even

publicize inventions prior to US filing in an attempt to find out which disclosures have a financial future sufficient to warrant a patent application. That strategy rules out the possibility of foreign filings, of course. As you noted the other day, WARF has traditionally realized a very significant portion of its licensing income from overseas licensees.

No matter how limited any particular numerical measure of patenting activity may be, it remains very clear that more and more universities are getting into this game and that they are doing so because of the real opportunities for income and for seeing the fruits of their research being put into practice.

ROYALTY THROUGH: 09/30/89

ACCT #	*LICENSEE	*CURRENT BALANCE* AS OF 6/30/89	ADDITION * JUL-SEP 89	*CURRENT INCOME * 09/30/89	
6880.04	*ABBOTT LABORATORIES	328,740.33	93,346.56	422,086.89	
6953.01	*BAYER AG (WEST GERMANY)	25,908.97	0.00	25,908.97	
6983.01	*BELL LABS	0.00	0.00	0.00	
6870.05	*BIOMOL	120.00	168.00	288.00	
6910.02	*BONE CARE	12,500.00	0.00	12,500.00	
6890.03	*CHUGAI PHARMACEUTICAL (JAPAN)	22,964,393.47	3,173,249.41	26,137,642.88	
	*REID-ROWELL (GERIATRIC PH) 1,25-DHCC	40,500.00		40,500.00	
	*DIAMOND SHAMROCK(TERMINATED 1982)	10,000.00		10,000.00	
	*REID-ROWELL(F2 1,25 DHCC) TERMINATED	25,000.00		25,000.00	
6954.03	*REID-ROWELL(F4 1,25 DHCC)	25,000.00	0.00	25,000.00	
6960.01	*REID-ROWELL(DUPHAR SUBLICENSING FEE)	12,000.00	0.00	12,000.00	
6880.01	*HOFFMAN-LA ROCHE (US)	3,659,603.39	323,271.61	3,982,875.00	
6880.02	*HOFFMAN-LA ROCHE (SWITZERLAND)	3,797,198.02	643,565.83	4,440,763.85	
6890.01	*LEO PHARMACEUTICAL	1,479,360.86	0.00	1,479,360.86	
6910.01	*LUNAR RADIATION	12,500.00	0.00	12,500.00	
6974.01	*MARUHO	50,000.00	0.00	50,000.00	
6974.02	*OSSIFICON (FORMERLY MDCI)	0.00	20,000.00	20,000.00	
6870.04	*ORGANON (FORMERLY UPJOHN)	156,404.59	30,530.49	186,935.08	
	*REVELON, INC.(TERMINATED 1982)	8,000.00		8,000.00	
6870.01	*ROUSSEL UCLAF (FRANCE)	6,617,525.89	197,406.27	6,814,932.16	
6954.01	*SUMITOMO PHARMACEUTICAL CO (JAPAN)	8,980.00		8,980.00	
6954.02	*TAISHO PHARMACEUTICALS (JAPAN)	9,000.00		9,000.00	
6890.02	*TEVA PHARMACEUTICALS (ISRAEL)	107,362.23	227.00	107,589.23	*a
	3 SPECIALS LICENSES				
6870.03	*AMERSHAM/SEARLE	84,517.24	0.00	84,517.24	*a
	*DUPHAR (ROAYALTY FREE)	0.00		0.00	
6870.02	*NEW ENGLAND NUCLEAR (DUPONT)	15,315.19	1,151.13	16,466.32	
	* TOTALS	39,449,930.18	4,482,916.30	0.00 43,932,846.48	

NEW LICENSES 09/30/89

*INCSTAR

*UNIMED