INTERVIEWEE: <u>C. Norman Winningstad (cont.)</u> DATE: <u>17 April 1996</u>

× ×

TAPE #	_4SIDEA	
<u>Counter</u>	Subject discussed	Names
007 026 028	Recap of why FPS ended , FPS staff/management did not notice problems appearing on horizon vis-a-vis UNIX	Lloyd Turner
044	Attempts to rectify problems by developing their own UNIX compatible system	
046		George O'Leary Milt Smith
051	FPS acquired a UNIX machine for their FPS programs, but it was too late	
057	Cray Computer bought physical & intellectual assets, was probably solicited by FPS to do so	
076 079 085	Norm could not sell his shares because he was an insider O'Leary retired, associated with Portland Art Museum	George O'Leary Milt Smith
085 092	Smith later became interim CEO of several companies, later Board member & a founder of Thrustmaster Turner dropped out of sight	Lloyd Turner
100 107	Emotional reaction to collapse of his creation FPS Board would not let Norm back in as CEO	
111 111	Smith & FPS board were to listen to Wantland for manageria advice concerning downsizing	Earl Wantland al
113 113	Neither O'Leary or Smith listened to Norm's advice	George O'Leary
125	1986=a deluge of bad luck, FPS collapse, Lattice has financial troubles	
131 131	Lattice, est 1983, wants to build a fabrication plant (a FAB) to manufacture semiconductors	Raoul Saud
145	Private sale of Lattice stock, Saud wanted \$4.50/, Norm wanted \$2.25/ Saud came down to \$2.50/	
166 173	Details of Lattice's financial problem	Raoul Saud
173 216	Machinations to get rid of Saud Lattice concentrates on one product, explains financial & technical reasons for doing so PAL=acronym for competitors old products GAL=Lattice product, "Our GALs are better than your PALS	
250	Employees receive short paychecks, much uncertainty about future	
262	Chapter 11 bankruptcy, SEIKO=manufacturer of the GALS, they shut off production in Japan	
270 270	Merlo put up \$ for the salaries, Norm got \$1.9 million investment money	Harry Merlo

•

Winningstad 7

.

Counter Subject discussed

 \geq

N

Names

	0.20	
280	Attorney for creditors was fair, laid out a plan that both sides could live with	
298	Norm to Japan, got SEIKO to resume making GALS explaining that their GAL inventory would be a total loss & promised to pay them 100% of debt. SEIKO agreed, saving Lattice	
360 360	Saud created financial problems by developing a large direct marketing force with really nothing to sell, having too many products meant nothing to the market	Raoul Saud
375	Concentrating on GALs was good idea, they sold well, got out of bankruptcy quickly, had reasonable payables	
382 389	Got thru bankruptcy in 90 days Within a year Lattice was out of financial troubles &	
	went public	
	END OF TAPE 4, SIDE A	
TAPE	SIDEB	
003	Lingering death of FPS	
010	Personal debts coming due at Performing Arts Center, guaranteed loan to buy property=\$1,000,000 and \$250,000 for theater	
028	Personal philosophy in face of 1986 disasters	
060	PSU room, OSU lab paid for by NW, probably early 1980s	
075	Dolores Winningstad sponsored Sesame Street & production	
	of play "Christmas at the Juniper Tavern" based upon	
	Bargwong Rashneesh in Antelope, OR	
085	Bagwham	B. Rashneesh
098	Dolores's need and dislike of asking Norm for \$, Norm gave Dolores some of his FPS stock, she had independence	
112	Dolores helped Tigard Theater, Shakespeare Theater, also Wildlife Safari (she's on the board), DW Intermediate Theater at the Performing Arts Center is Norm's gift to his wife	
119		Jim Castles
120	Flew Jim Castles of Murdock Trust to visit Wildlife Safari to get \$ for interior of building	
146	Started Thrustmaster in 1990-1 with Bob Carter to develop a thrustlever for computer game about flying because the palm stick in general use was unreasonable	
146		Bob Carter
177	·	Frank Bouten Milt Smith
184	Bring your checkbook	Jerry Pratt

÷.

Winningstad 8

Cubiest discussed .

14

Counter	Subject discussed	Names
199	First product developed in Carter's garage in Lake Oswego, out on the lawn, Town said "move operation elsewhere"	
212	Rented space in part of a building, soon took over that building, then another. this is an assembly plant	
219 221	Bob Carter is good at coming up with new ideas, hired	Buzz Hoffman
	a former F16 pilot who used Internet to spread word of Thrustmaster products	
237	Need for a real joy stick, first ones made of metal are machined instead of cast, profit margin is low	
260	Retooled in plastic where set-up cost is high but profit margin is good, metal ones cost \$145	
278	Next product is plastic replica of F16 cockpit	
280	Norm wants to expand horizontally beyond aviation orientation	
292	Race car simulation=second marketing niche	
304	Next was golf game simulation with a real ball & club which measured angle of trajectory & calculated velocity	
323	Next was pin ball simulation with gizmos on the side of the key board	
333	Chairman of Board at Thrustmaster	
340		Cyrus Choy
340	CEO of Lattice in 1996	
345	Writing a book, has roughed out some chapters, a book proposal (similar to a business plan) must be submitted	

END OF TAPE 4, SIDE B

8

HISTORY OF THE INTERVIEW

C. Norman Winningstad, 1996

There was a genuine interest on part of the staff at the Historical Society to revive the Oral History Program that had been so successful during 1978. Barbara Doyle met Norm Winningstad at an Oregon Pilot's Association dinner on 2 February 1996. A brief discussion about the Historical Society, our interest in oral history interviews and a priority interest in obtaining information about the hi-tech industries led to an exchange of business cards and an agreement by Norm to be interviewed by B. Doyle. Norm was very receptive, tried to fax (on Sunday, 4 February) info about time and place for the meeting. Within a week, time and place for the interview were determined.

Instead of one session, there were five one-hour sessions spread over approximately eleven weeks, all held at the Winningstad's condo in the Sylvan area. Norm was sent (via fax) a list of topics prior to the sessions. He followed the list quite well, provided extremely good explanations of technical topics, showed himself to be a "tech-weenie" (his words) with a wide range of intellectual, business and scientific interests. Norm is very articulate, has good concentration skills and is able to return to his statement at precisely the point where he left off (there were only a few interruptions). The interview topics generally follow the actual sequence of events. The collapse of Floating Point Systems and Norm's minor business interests are the major digressions from a straight chronology.

He understands his position as both a minor venture capitalist and a community philanthropist - there is a need to put up some of his own money if he wants to draw other people into a project. His interests have varied from hi-tech to brand new products, to academic support, to major support of the arts. While not really a life interview, this series certainly goes beyond just Norm Winningstad's place in the development of the hi-tech industries of Washington County.

All duplication and indexing of the tapes was done by Barbara Doyle. Index was proof-read by Norm Winningstad.

Some specifics concerning Norm Winningstad interviews

Time period covered:	overall; hi-tech in Oregon;	1925 - 1996 1957-1996	
Names mentioned:			
Hamoo morrerorreat	hools	B. Last names	
	A. Businesses/Schools		
Cray Computer	Control Data Corp.		
Dean Witter	Auel Bouton		
Digital Equipmen	Carter		
	Floating Point Systems		
General Electric			
Goldman Sachs			
Hewlett-Packard		Fryer Hatfield	
Hughes	Hoffman		
	Johnson		
Hydro Catalysis Power Lattice Semiconductor		Lawrence	
Lawrence Berkel		McCutcheon	
Mentor Graphics	c) 2000	Merlo	
Optical Data Inc.			
OR Coast Aquarit			
OR Episcopal School (OES)		Moriyasu O'Leary	
	OR Graduate Institute (OGI)		
	OR Museum Science/Industry		
OR State Univ. (OSU)		Pratt Prince	
	Performing Arts Center (PAC)		
Portland Art Museum		Ropiquet	
Portland State Univ. (PSU)		Salquist	
Seiko		Saud	
Spectronics		Segrey	
Star Technologies		Smith	
Tektronix		Tsui	
Thrustmaster		Turner	
Tyres Heart The	atre	Vollum	
Univ. Cal Berke	eley	Wantland	
Wildlife Safari			
Zeeland			