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William "Bill" Walker Interview Transcript

Narrator 1: William "Bill" Walker (BW) Narrator 2: Lula "Lu" Fey Walker (LW); Interviewer: Dana Williams (DW). Date: 21 February 2012 Location: BW & LW 's Home, 13695 SW Hargis Rd. Beaverton, OR 97008 Transcribed by Dana Williams, 3 March 2012 - 18 March 2012

Biography/Introduction:

Bill Walker was born in southern Missouri outside the town of Mountain View on September 28, 1930. He and his wife Lula Walker have two children together, a son and a daughter. They met in Missouri and began dating when they were 16. Mr. Walker volunteered for the Air Force during the Korean War where he was trained in radar technology. He saw his first Tektronix oscilloscope on an Air Force base in Biloxi Mississippi and knew Tektronix was where he wanted to work. He attended The Missouri School of Mines and Metallurgy in Rolla, Missouri and graduated with a degree in engineering. Since landing his first job with Tektronix (TEK) he moved quickly into leadership positions. Mr. Walker has held multiple upper management positions within TEK as well as in Electro Scientific Industries (ESI) and Planar. His main contributions to TEK are those of organizational structure and communications systems.

Note to auditor: You may notice that audio file WS600013 is not here. WS600013 was a false start due to a telephone call that came in. No audio was lost thus no transcription is included. Names outside brackets are checked, names inside brackets need follow-up with narrators.

William "Bill" Walker 21 February 2012

Nine audio files, Combined for a total of 02:23:49; 2 hours, twenty-three minutes.

Time Code	Transcription
Audio File:	DW: Today is February 21, 2012 and this interview is for the
WS600008	Washington County Museum. My name is Dana Williams
	and I am here with Mr. William Walker at his home in
	Beaverton, Oregon. So, Mr. Walker, um, if you can just start
	by saying your full name, your date of birth, and place of birth.

	Narrator's birth,	#00:00:29-8# BW: I'm William D. Walker. Most people know
	ect.	me as Bill. And I was born, uh, I'm a hillbilly. I was born
		down in the Ozark Mountains in South Missouri near the
		Arkansas boarder. And I went to school there. Went to school
		through grade school in a little one-room schoolhouse in
		south Missouri. Through high school, a small high school.
		And, um, Well, How far do you want me to go with all this
÷		[laughs]? That sort of takes me through high school.
		Graduated high school when I was sixteen, and then the
		question was, what shall I do? Through some contacts I had I
		found that I could get a few college hours and pass the state
		teachers examination and could begin to teach in the little
		rural schools in south Missouri. So, for the next three years I
		taught in those little small rural schools. All of those I taught
		in had eight grades and two teachers, so I'd teach either the
		first through the fourth grade or I'd teach the fifth through the
		eighth grade during those times. So I did that for three years
		found that it was going to be very slow ever getting a college
	Air Force	degree going in the summers and teaching in the winters. So.
		I decided that I would take advantage of going into the Air
		Force. The Korean War was raging, there was some
		question over whether I would be eligible for the draft, but I
		decided that I would go ahead and enlist in the Air Force. Out
		of that I would get the GI bill and that would help me finish
		college, and pay my way through college. So, when I went in
		for some reason I had seen the word somewhere and it listed
		some interests and I said well, radar sounds interesting. So I
	First encounter	wrote that down, and guess what? They sent me off to
	with TEK	electronics school. [Laughs] And while I was going to
	Oscilloscope	electronics school in Keesler Air Force base, Biloxi,
		Mississippi I saw my first Tektronix oscilloscopes. One of the
		instructors rolled a scope out and pulled the sides off of it and
		showed us how it was built, and it was the most beautiful
		instrument I had ever seen. If you are involved in electronics,
		or almost anything, you will see that they're made in a very
		functional way, but this wasn't only made functionally, it was
		beautiful! Literally beautiful. The components were mounted
		on ceramic strips with little silver notches, they were laid in
		beautifully and each strip as they should be. The cables on it
		were all hand laced and lay in perfect [inaudible]. And the
		outside of it was anodized. And it was just a beautiful
		instrument; I couldn't believe it. I found out that that was built
		in Oregon, and my wife's family had just moved to Oregon.
		And I said, "When I get out of here. When I finish college. I'm
		going to work for that company". So that's the way it all
	Korean War and	happened.

Oscilloscopes	
	#00:04:11-4#DW: How were the Tektronix oscilloscopes used in the Korean War?
	#00:04:22-2# BW: Well they would be used, not only, they weren't used particularly for the war, but they were used for all the back-up electronics. They were used heavily in the television industry and the radio industry, but also, of course in the military you had electronics like radar and things like that so they were used in measurements that had to be made for the military radar. Although the military market was a big market, it was not by any means the primary market. The primary market were companies like IBM and RCA and General Electric and the big companies that were building home electronics. But non-the-less, yes the military did buy a lot of them.
Audio File: WS600009	BW: I was born in the Ozarks in 1930. Which makes me, 81 years old now. At the time of this interview.
	#00:00:13-1# DW: And where in the Ozarks? What was the town?
Reiterates birth, early education	#00:00:16-9# BW: The town, was near the town, it was actually in the country about five miles from the closest town. The closest town was Mountain View, a little town of about five, seven hundred people at that time. And so, I went through my eight years of grade school there, in a little one- room country school, and then went to high school there for four years and I graduated from high school. Then was when I started looking around to what I wanted to do, and ended up, as I said a little earlier in getting a few college hours, passing the state teachers examination and for three years I taught in a little small rural schools there. Then, because it seemed like I would never get my college education, getting a few hours each summer in the local college, I decided to go into the Air Force and knew that in the long run then I would
Education in the Air Force	be able to get a GI bill which would help pay my way through college. Turns out I had the opportunity to select what I was interested in as a, after I volunteered for the Air Force, and I saw the word radar, and that sounded interesting to me, so I went in, went through basic and went immediately to Keesler Air Force base where there was a very good electronics school. It didn't give college degrees, but it was six hours a day, six days a week for over six months. You get an awful lot of classroom hours. I'll have to say I learned, my electronics there better than I really learned it when I finally did go to

	college and get a degree in electrical engineering. I found that the education that I got in the Air Force was very thorough. It gave me a very thorough understanding of electrical and electronic products and systems worked.	
	#00:02:39-0# DW: So were you based in Biloxi for the entire duration of your time in the Air Force?	
Tech in the Korean War	#00:02:45-0# BW: No, I was based in Biloxi for the six month school, and I took an instructors course in instruction and stayed there for several months beyond that. And then much to my surprise and chagrin, I saw my name posted for an over-seas assignment in Korea and, but it did give me an opportunity to take one more course in New York in airborne electronics. So, my wife and I and little two and a half month old baby moved to New York for about three months and took a special airborne radar course. Then I bid my little two and a half-month old or three month old I guess, three and a half- month old daughter at that, goodbye and my wife goodbye for a full year while I went and kept, helped keep a radar set running on a very high mountain in Korea. [Laughs]	
	#00:03:51-0# DW: And that was to assist with the airborne operations?	
-	#00:03:54-2# BW: That was to, do two things, it was early warning system so that we could see any planes that would come down from Korea or as China got into the war, Korea or China, we could spot those. We could, at the same time; we could pick up and start conversations with our own pilots as they took off from Tachikawa airbase in Japan, or the airbase in Seoul. We can direct them, our operators, and could give them directions vector them into an intercept pattern for those planes that were coming down, and uh, and uh, dropping bombs on us [laughing]. Down through the main line, along the main line of resistance, in across the center of Korea. So	
	I spent a year there and, [sighs] keeping, helping, many of the people keep their radar sets running. And then that year was over, and I came back and got reassigned to a radar site on the East Coast. On the tip end of Virginia that sticks way down the outside of the Chesapeake Bay. And we were right at the end of the peninsula, and with hundred foot radar	
College	towers and guiding the planes and those that were watching for any planes that shouldn't be there. So I stayed there and finished out and had uh, my wife and daughter and then came home, and started college. In Missouri, Insusel And	

Education	so I picked the college I picked was then called the Missouri School of Mines and Metallurgy. And I knew it was a good school, but I didn't know how good it was, but it was by far the best. It is now called the University of Science and Technology. University of Missouri School of Science and Technology. And it's really, in my opinion the best technical college in the Midwest. It just is, it's a terrific school, and we've had lots of good engineers all here along the west coast that I meet with fairly regularly that are alumni from there. I was in a hurry at this time because I already have a baby daughter and it's time for me to start settling down somewhere and making a living. Four years in the Air Force and now three years of college, so I really hustled. I went summer and winter and every break and I finished my four- year college education in about three and a half years. Because my wife's family were in Oregon and because I knew Tektronix was in Oregon, I tried to get a job at Tektronix, but I couldn't. They were quite small at the time. They wouldn't pay my way out for interviews and moving expenses and all that. I took a job with Boeing in Seattle, and worked for Boeing six months until I could get a chance to interview at Tektronix. Then interviewed at Tektronix and came on down went to work at Tektronix. Which is where I really wanted to end up. I had been associated with them all together for about forty-two years. But that counted not only my period of time working as an engineer, and then in the management chain, and then eventually on the board of directors.
	#00:08:06-2# DW: Were there people at your University in Rolla that encouraged you into the Tektronix kind of route, or is that something that you had been set on since the Air Force?
	#00:08:22-1# BW: Yes, that's something I had made up my mind about, that I was going to go and get the college education and Missouri School of Mines and Metallurgy was a really good place to do it. I came from Missouri so I had relatives and some support system there. But beyond that, I also knew that Lu's family was out here so there were two things that drew me to Oregon. One was that the company I really wanted to go to work for was Tektronix and her family was out here. So it was about time after about four years in the Air Force and three more years in College to let her be somewhere near her family for a change. [laughs] Let them

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	#00:09:15-1# LW: Would you like some coffee? (Asking DW)
	#00:09:15-9# DW: Yes, that would be lovely, thank you.
÷	#00:09:20-5# LW: Would you like a cup too? (Asking BW)
Getting hired at TEK	#00:09:22-8# DW: Was it difficult, you said you were, it was a small company at the time, was it difficult to get that interview? Were you in contact with people before you left?
	#00:09:36-9# BW: I had written to the head of engineering, Bill Polits. But he didn't, at first I got a letter back, the first time. I did that when I was a junior and trying to get a summer job here. I thought well maybe I could get a summer job here. I got a letter back, not from him, but by someone in personnel who said that Tektronix didn't pay for transportation to and from and that it wouldn't be worth me trying to come out on my own and work that summer and besides they mostly hired just Oregon boys, and I do mean boys. Weren't many girl engineers in those days. So I didn't get to come out for any of my summer times. Then when I was graduating I wrote again Bill Polits and the personnel people that I, you know, I had gotten some names that I could write to at Tektronix. They didn't even answer my letter, so I took a job at Boeing in Seattle and said that I'm going to interview at Tektronix first chance I get. I came home one night tired and dirty from, not real dirty, but it was in an engineering job at Boeing, but tired and not wanting to do anything else.
	#00:11:10-7# LW: Do you take anything in it? (Asking DW about the coffee she is serving)
	#00:11:17-4# DW: A little sugar and cream, thank you.
5	LW: Oh, Ok.
	#00:11:17-8# BW: And my wife, who is always looking out for me, said, "Bill there's a recruiter from Tektronix in town, in Seattle, you've got to go down and see him." I said Lu, "I'm tired, I'm too tired, I don't want to mess with it tonight", and she said, "Yes, you've been wanting to do that, yes you've been wanting to do that, so get busy and get down there". So, I went down there tired and not looking my best, and didn't put a tie on or anything like that. Went to the hotel, the Olympic hotel and I went up to the hotel room, and I

	remember it very distinctly because I knocked on the door,
	and the door swung open, and there's this guy, his name was
	Earl Scott, said hello to me, and then as I started to step in,
	he just whirled around and right in my face said, "What is the
	second integral of acceleration?" [laughs] So I thought quickly
	and I said, "distance". So we were off and running with the
	interview, that was the right answer. We were off and running
	with the interview and so I got a job offer. But, now he was
	not the head of engineering, he was the head of
	manufacturing. So instead of coming into engineering, I
	came into manufacturing. My first job was in pre-production
	engineering, and it was to look at the new products coming in
	and make sure that the engineers had done a good job
	getting them ready to be manufactured. Because it's one
	thing for an engineer to make one, it's something else to get
	everything set up so that you can manufacture them by the
	dozens, or hundreds, or thousands. And frankly, the
	engineers weren't doing a very good job at that. They sort of,
	brought it to manufacturing and then the engineer would
	come over and kind of help him figure out how to do, and set
	up parts lists and set up pricing lists and all the stuff you had
	to do to build not one but hundreds.
	LW: How much would you like? (Asking DW in reference to
	cream & sugar for the coffee)
Audio File:	BVV:
VVS600010	really my first [pause] real contribution to Tek. 1, but, this, this
Dhana Quatan	is awful. So I got a little bit of permission to do something
Phase System	from the manufacturing manager to do something to help us
	get those products that were coming, new products that were
	coming out of, being introduced out of engineering, so that we
	could build them. I got, nired two other guys. I was kind of
	the lead guy for this little three-person group. We started
	taking the new instrument, whenever engineering would bring
	then we would ge back to angineering and sou we don't have
	this and this and this and this and this and havin to make up
	the list of stuff. So I said this and this, and begin to make up
	need a process that is a consistent process that covers
	what's needed to bring a product from engineering to
e -	manufacturing " So I created out of my own brain a thing
	that we called ended up calling the Phase System Ma said
	ok the first phase is the engineers that design this thing the
	second phase is they bring it over to manufacturing during
2	that phase we will do an evaluation on it. See whether or no

	information we need to manufacture it and if not get that
	information out of engineering and make sure the
	manufacturing has it. That will be phase B and then phase C
	will be when we actually introduce it into the manufacturing
	process. Once we know all that's done. So we had this
	phase system and now we know, and we set up standards.
	said ok, well if it's coming out of engineering it has to have all
	of this kind of stuff. Now we'd take a good look at the
	manufacturability of it and say ok now we have to have all of
	this done before we can manufacture it. And then it would go
	into manufacturing and we would watch it for a cortain pariod
	af time and it would be done. On the share system because
	of time and it would be done. So the phase system became
	the standard thing and they still, [pauses and lowers voice]
	they still use that phase system over there, they have no idea
-	who started it, but [laughs], but they still call it the phase
Phase Angle	system, and we'd put out a little publication each month that
Publication	said where every new product was in the phase system.
	What had been done, what hadn't been done. We called it
	the Phase Angle. And they still call that the Phase Angle, they
	still put that thing out, and they still run, basically run it right
	through the same processes [laughs] oh thirty, forty years
	later. But, that was probably my best contribution into the
	kind of the engineering, manufacturing interface effort. Out of
	that I did build myself a group, a small manufacturing
	organization. And then I sort of accumulated the other
Integrated	manufacturing: engineering things that were in existence in
systems, parts	the different parts like out in the metals parts or in the unit
manufacturing	wiring parts or over in the components and Tektronix was
manarataning	very integrated. They built literally every part [laughs] that
	they used practically. So it was very integrated and I [nause]
	built 1 got the system going for all of that and built this fair
	sized group that simply worked at that whole introduction
	sized group that simply worked at that whole introduction
	process all the way through to the pricing. It was a very good
	group. Eventually the order came down from on-high, what
	was on-high then, [LVV coughs] we're going to have to
	coordinate these two things that's going on over here
	because by now we are doing a lot of the engineering, plus
	the design engineering organization, we'll put them all
	together, and they did that. They moved my organization
	over into the engineering, rather than leaving it in
	manufacturing because I had a bunch of pretty good
	engineers and we were doing [laughs] all the finish work.
	finish engineering work, finish up all the engineering work on
	every product. So I moved over to the engineering group and
	reported to the vice-president of the engineering Bill Polits
	Wonderful aux And I continued to work for him but up
	I wonderful guy. And i continued to work for him, but un

Advanced Products Group	[pause] as uh, as I did that and as the company grew larger and the processes grew a little bit more complex I sort of just bypassed him and he worked for me instead of me working for him, and as I kept all my old group plus my new, plus all of his group, plus a couple of others that at that time were not so connected. That was one of the, two of the things I had done in the mean time. I had started an advanced products group, which were working on advanced products because they had
Integrated Circuit Group	to get started somewhere and they weren't getting started and I just did that. Well, I can get away with it, and I did. And then in addition to that I [pause] Oh I had started an integrated, what's called an integrated circuit group because I had started hearing about this guy down in Arizona, by the name of [Glenn Madeline?], that knew how and would teach you how to make an integrated circuit. Now that's instead of having, making circuits out of resisters and capacitors and vacuum tubes or transistors and all those things and running wires between them. This was a way to make them all in a process on a little small chip. This seemed to me, has to be the way things are going to be going. So, I went down to Arizona and sat through [Glenn Madeline's?] course and he taught us how to do it. How to cut Rubylith, make out patterns. We'd make out this huge pattern, as big as a wall, which then gets photographically shrunk, and then photographically imposed on a small chip. And you can make
	things like that beautiful little instrument there [gestures to digital recorder] instead of being that big, or that big [gestures larger and larger with hands in the air]. When I learned how to do it, and I had him come up and teach a group at Tektronix how to do it and we started our own integrated circuit labs to build our own circuits for it. And, in doing these things you just kind of, you know, you get [pause]. I guess you gain a lot of influence in the company. So eventually I gained so much influence that I ran a big piece of Tektronix, still reporting to Earl Wantland, who at that time was CEO. So what came after that? What came after that Lu? I don't know. Um
Product planning	#00:08:12-8# LW: Howard asked you to run ah, what was that before or after that? That he asked you to take charge of all product planning?
	#00:08:21-8# BW: Oh yes, I guess that was the next thing. I was so involved in that product planning stuff and I had this system that was working, the phase system that he, Howard asked me to be in charge of product planning. Which was,

		you know, like handing me a big club to do the things that I
		wanted to do. Because by planning the process I could get
		right into the, to the process, the engineers process and
		basically force the engineering group and the engineering
		vice president and all of them to move that product along
	Professional	through a very consistent process to bring it into
	relationship with	manufacturing. As the more I did that and the more I saw
		which products we really sught to be building, the more l
		which products we really aught to be building, the more r
		made inputs that said we really aught to be building these
		new products. Or we aught to be building this or we need to
		do this or we need to do, and we had these new integrated
		circuits. And frankly Howard Vollum and I became pretty
		darn close and he [laughs], liked what I was doing a lot. He
	TEK	was getting done the kinds of things he was really interested
	Development	in getting done and he was getting that done through me and
	Company	so I became a kind of the runner of all of the engineering and
		the new product operation in total when I became Vice
		President of engineering, then went on to become Chief
		Operating Officer of the Company, and during that time, I had
		started a new operation inside of Tektronix called Tek
	2	Development Company. We had so many creative people
		and they were leaving the company to start their own
		companies and I reasoned that if we would put together a
		development company, a Tektronix development company
×		and that people that are in Tek that really are wanting to do
		this we would beln them as out and start their own company
		unis, we would help them go out and start their own company.
		But in order for us to help them and allow them, and make it
		easy for them to do that, we would own half the company, we
		wouldn't own quite nair, we'd own only forty-nine percent,
		they would own fifty-one percent. Then we would help
	Start of Planar;	finance the new company, we would help get the proper
č.	Jim Hurd and	equipment, because we had so much at Tektronix and we'd
	Chris King	help them get going. So that feeds into the whole Silicon
		Forest kind of idea. Tek was just loaded with guys who were
		creative and who wanted to do things, and who would love to
		do this sort of thing so now they had a vehicle that they could
		come to the Tek Development Company and say, here I want
		to do this. Like Jim Hurd and Chris King. They came to me
		one day, and said, I remember them specifically because I
		did a lot of, they became Planar. They said, "We have this
		idea we know how to build a flat panel we know how to
		address it and we can build instead of an oscilloscone that
		looks like the nicture of the oscilloscope in there. We can
		build one with a flat nanel in it, or we can build displays for
		other things out of this flat panel and we can build displays ful
		we could like to onin out and we would like to take some of

	the equipment with us that we've been using in the basement to work on it. "So I sat down with them and said, "Ok, here's the deal, we'll help you spin it out and then you can take the equipment with you, and we will help you with the start up expense, but we'll own forty-nine percent of the company. So whenever you get successful and go public, and sell the company, or let it go public, we'll get our money back." So that's what I did, and we, and that Tektronix Development Company continued and we spun several companies out into the Silicon Forest around here through that. Because our really good creative engineers were going to go somewhere and do something, this gave us a change to have a part in it and make some money out of it, and gave them a lot of help because they didn't have then to go out and get bank loans and do all of the stuff that you would other wise have to do to get a small company started. So that became the Tektronix Development Company and that really helped a lot to seed this valley with the, small companies.
TEK 'university'	#00:13:42-9# DW: How did Tektronix, do you think prepare those individuals for running their own business and for starting their own business?
	#00:13:54-3# BW: Well Tek didn't do anything overtly for that purpose. They, it was pretty much learn as you go. I think for the people who wanted to start a new business, they had to get busy and make sure they understood enough about business that they had a chance to succeed. But I would put in here, that there were an enormous number of classes at Tektronix of almost every kind that you can think of. We were running at that time at our peak, and at that time we were running a bigger operation than Oregon State in terms of classes. Had an enormous educational program. I wish I still had a book to show you all the courses you could take at Tektronix. Tektronix people, you know, there would be a Tek guy who's very good in some field and he would be, one of his jobs would be to spend a few hours a week teaching classes. We had everything from classes in basic electronics, up to classes on how to make integrated circuits. We even had classes on learning to fly, if you wanted to fly an airplane, I took one of those.
	#00:15:31-5# DW: Did Mr. Vollum teach that class?
	#00:15:36-8# BW: No, he didn't teach any classes at all. This was done by engineering guys or technical people or

Jean Auel	marketing sometimes, marketing people would have a class going in marketing. Sometimes it would be someone, who out of human resources that would have one going on organization management. How you do training, all kind of different things. We had a catalogue that thick that was full of courses. [Indicates about two inches] It was a wonderful opportunity to learn and to move on up the ladder. There were all kinds of people who went there. Do you know who Jean Auel was? [Asking DW]
Early atmosphere at	#00:16:15-6# DW: I don't, no.
TEK	#00:16:20-5# BW: You don't know who lean Auel was Well
	she's a writer who wrote a series of books which became best
4	sellers and movies were made of them. The initial book she
	wrote was Clan of the Cave Bear, and she wrote it while she
	was working at Tektronix, and she was very very, very bright
	woman. Classes were available where you could learn a lot
	of different skills. Tek was a very wide-open company, it was
	an amazing company. And it started from simple things like, I
	didn't have an office. Howard Vollum didn't have an office. It
	was just a wide open floor that just stretched for, you know,
	for several hundred feet and there were desks out there, and
Area	there sat Howard Vollum, and if somebody from way down on
Representative	this twenty thousand person organization, wanted to talk to
System	Howard Vollum, all they had to do was walk up the stairs and
	Walk out to laughs in s desk and tap him on the shoulder
	read communication system, we had even area, we never
	bad a union. Unions tried many times to come in there, but
	they could never get anywhere. Our employees didn't need
	them didn't want them. We had an area ren system. So that
	every area. I don't remember how often, every three or every
	six months we would elect a representative from their area
	and this representative from their area would go to a big area
	rep meeting every month and all the people in there, if there
	was anything they didn't like including, "My feet get cold", or,
	"I don't like the lunches that are served, the coffee is awful" or
	whatever it was, that area rep would bring that list of issues in
	and so there would be a big room full fifty or so area reps
	from all over the company. And someone like me, or Howard
"A 1 · · ·	Vollum, or Earl Wantland or Bill Polits or whoever's turn it
An nonest	was, would stand up in front of those area reps and take the
company,	[pause] take the guπ [laughs] they had to give out, and
	answer their questions in person. And if we didn't have an answer, that they'd ask about, "well why is this done

Influence of TEK in Silicon Forest	somewhere?" And I'd say, "Well I didn't know it was, I will find out about it." And then we would give them written answers and so every month there would be an area rep sheet that came out that had all of the answers from the management about the issues. So it was a very open company. An honest company. Howard, I have never met anyone more honest than Howard Vollum [laughs]. I mean, he wouldn't, he wouldn't shade anything. On a picture of a, on the front panel [shuffles papers that microphone is resting on] I don't think I have a Tek catalogue up here. Probably everything except that. On the front of a Tek catalogue, if he had a picture of an oscilloscope with a trace that ran across it, like they do. He wouldn't let you touch up that trace. He said, " If people look at that and they think it's a picture, then they aught to see it
DNA of TEK	how it is. If it's a little too dim and you don't like it, that's the way it is, and you'll show it just like it is." Total honesty was
	[pause] an innate kind of a policy with him. He couldn't be dishonest. What else was there about it? I guess what I'm saying, all of those things that I'm saying about Tektronix [pause] to a very heavy degree moved out into the Silicon Forest. Because those guys that went out and started companies, most of them started companies that ran on those same kind of principles. Open offices, open communication lines, basically operated on a system of trust rather than some other system. So the Silicon Forest became true almost, it truly had the DNA of Tektronix in it and almost any of them would tell you that. After Intel came in there were a few Intel, Intel had a few spin-offs, which were a little different. Sequent I think was an Intel spin-off, and they were a little different. The Tek spin offs, nearly all operated in pretty much the same way that Tek did.
Planar	#00:21:32-5# DW: So, one of the spin-offs that you spoke about earlier was Planar. How did you personally get involved with Planar, and when did you start working for them, and what was your role?
	#00:21:50-5# BW: Well, the dates would probably escape me; I could make some guesses at it. I told you, we had started this thing called the Tektronix Development Company, and I helped with spin-offs. Chris King and Jim Hurd came and said, we would like to spin-out. So this was maybe not the first one, but the first one that became a really large company like that. So as I said, basically I said the rule was that we would own forty-nine percent of it, and we would help them do it. I don't remember whether they asked me or

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Japan, Sony founders Mr. Akio Morita and Mr. Masaru Ibuka world wide kind of a company in that respect. [Pause] Oh and another one of those that was interesting of that time. Howard Vollum had been to Japan and he found that he liked a lot of things about the Japanese people; he liked the simplicity, the simplicity of life, just a lot of things about them. So in his visit over there he contacted the Sony people and he found that he really liked Mr. Morita and Mr. Ibuka. the people who had started Sony and were running that. They talked about it, and we had a distributer, basically a sales operation in Japan, but he and Morita talked about what they could do together and so basically they decided on a very small, very portable instrument, that Sony seemed very good at doing that kind of thing, and it would be made in Japan. We put together a joint venture operation in Japan, and now it's [inaudible] Tokyo and Japan. So in the course of my career I became the Tektronix Board Member to that group, so I was in and out of Japan a lot. But these guy, I got to know them really well. The two founders of Sony, Mr. Morita and Mr. Ibuka I got to know very well. They were wonderful gentlemen to do business with, they were all business and the were very Japanese. Mr. Ibuka, he always wore a long Japanese robe and what I call [ghost?] slippers, with the little thing between his big toe. He was very traditional Japanese. Mr. Morita had come early to the United States to help Sony get established in this market, so he spent ten years in New York getting Sony off and running with their business in the US. So he was much more Western, American. Confrontive, open personality, kind of person.

#00:05:15-0# DW: How did the business climate or relationships within the business change as it grew to be International?

Guernsey Island

#00:05:30-2# BW: It made the jump to International really really well. We had good people at the head of that. Don [Alby?] became International Manager. He was a British guy and our marketing organization over there, and he became International Manager. He was married to a girl from Guernsey Island, and I think that was the influence probably if we really knew it, the influenced [laughs] us to go put a manufacturing operation on Guernsey. Guernsey isn't very big, it's in the middle of the English Chanel, it's about five miles all around it. The saying over there was that, "Guernsey is nothing but tourists, tomatoes, and Tektronix". Those were the main things, tourists went there first and they had huge [pause], what do you call them, hot beds, with glass

	covers that raised tomatoes. A huge amount of Guernsey was covered with these low glass platform things that they grew tomatoes in. They started them really early, and the furnished the European market with tomatoes, [laughs] so tomatoes and Tektronix. I'm sure we were there because Don [Alaver?] our international manager's wife was from there. But it worked out, it was a good place for tax purposes, they had some practical things. The Sony Tek thing was a very very good way for us to address the Far East and Sony was a very good partner with us. We had operations everywhere.
	#00:07:39-4# DW: How did your international travel for the company change your perception of Tektronix role in the high tech industry?
	#00:07:50-1# BW: You know, that's an interesting story. Because it wasn't [sigh] My international travel, I was sitting in a staff meeting, a Bill Polits staff meeting, I was still reporting to Bill Polits who was head of engineering. [Phone rings]
Audio File: WS600012	BW: Yeah well[phone tone] #00:00:05-4# LW: Sorry.
	#00:00:11-0# DW: [laughs] That's ok.
Norm Winningstad	#00:00:15-7# BW: Yeah, we were sitting at a staff meeting, Bill Polits's staff meeting and Norm Winningstad started sort of pounding the table and said, "We've got to do something. There is a group that is being put together setting
International Electrotechnical Commission	They're going to set these international standards, and they're doing it partially so that they can use non-tariff barriers to keep us out of certain places where they have competitive products. We've got to get in on this and make sure they can't get these standards set so that we can't sell our products in France, Germany and other places." So this was Winningstad, and then he said, "And I'm busy, and I've this and this and this going and I can't do it and someone's going to have to do it!" And nobody said anything so finally I peeped up and said, "Well I'll do it." So that began my
	[laughs] sub-career as a member of a thing called International Electrotechnical Commission, I, E, C. And it was a group put together to bring about standardization of a lot of things having to do with instrumentation and electronic equipment in general. So they met everywhere in the world.

They met in London, they met in Prague, they met in Helsinki, they met in Leningrad, they met all over the world. So I started because I started going to those meetings and very guickly I became Chairman of the oscilloscope committee, the committee on oscilloscopes. I became chairman eventually of the, oh, electronic instrument piece of it, but that caused me to have to go to these meetings which were held in all of the different parts of the world. Which was a great thing for me, it was wonderful to go to Prague and have someone, people who were on the committee from Prague there to take you to dinner, tell you where to eat, tell you where to stay and be the host and so forth. And I did that in Helsinki, and Prague, and Rome, and Leningrad, and Paris several times, London, and Tokyo. It was a good thing to do and it was a good thing I was on it and eventually as I said I became chairman of all the committees that had anything to do with our type of instrumentation and we could make sure that we were not barred from places that we didn't want to be and on top of that push for standards which were the way we did things, which made it easier for us all around. It was a good thing for Tektronix and I think across, I think it was a really good thing all the way around. Good standardization of things that needed some standards. It was a very good, you know, I always told people; this is my best, boondoggle I've ever gotten in my whole working career. That I took that job because Winningstad said that he was [laughs] too busy. I really got to influence a lot of things, so it was a good thing, but also it was a lot of fun. I met a lot of people from a lot of different countries that worked in the high tech industry. [Phone rings]