

Knox Bell

Interview conducted by

David Caruso, PhD

June 12, 2014

SAN DIEGO TECHNOLOGY ARCHIVE



Knox Bell



Knox Bell concentrates his legal practice in the areas of business and corporate, biotechnology and life sciences, licensing, strategic alliances, healthcare and nonprofit research institution.



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INTERVIEWEE: Knox Bell

INTERVIEWER: David Caruso, PhD

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1 **CARUSO:** Today is the 12th of June, 2014. I'm David Caruso. I'm with Knox Bell.
2 We're sitting here as part of the San Diego Technology Archive Project in San Diego.
3 Thank you again for agreeing to meet with me to talk about your knowledge of
4 development of the San Diego area. What I'd like to start with first is hearing a little
5 bit about either how you came to be in the San Diego area or if you grew up here,
6 reasons that you are interested in staying in the area, or your family background and
7 things like that.

8 **BELL:** Okay, yes. My name is Knox Bell. I'm a partner in the San Diego law firm of
9 DLA Piper. I came here in 1968. The name of our law firm then was Gray, Cary,
10 Ames, and Frye. It later changed in about 1994 to the name of Gray, Cary, Ware, and
11 Freidenrich. In about 2005, the firm changed its name to DLA Piper, Rudnick, Gray,
12 Cary, and now we're just known by the shorter name of DLA Piper. I grew up in
13 Central California, city by the name of Visalia.

14 I went to law school at UCLA, graduated 1968 and didn't have any ties to San Diego
15 whatsoever. As part of the law school experience, I did interviewing and interviewed
16 both in San Diego, the L. A. Basin, and even as far north as Santa Barbara and as far
17 east as Riverside and San Bernardino. I was fortunate to get some good job offers
18 from San Diego firms. The two major San Diego firms at that time were Gray Cary
19 and another one by the name of Luce Forward. Both, I thought, were excellent firms.
20 I was a young law school student married with a kid by that time. I did choose Gray
21 Cary and have been very, very happy with that association for the last 46 years now.

22 **CARUSO:** So when you were interviewing at different firms, was there a specific area
23 of law that interested you that you wanted to keep pursuing, or are you more open-
24 minded about what areas you might sort of settle on for your career?

25 **BELL:** Back in the mid- to late '60s, there was not nearly the specialization there is
26 today. Today lawyers and other professionals have to be extremely focused,
27 extremely specialized. In those days there were two specialties: business and
28 litigation. I selected the business side rather than the litigation side although back in
29 the late '60s, even if you're going into business, you had to spend up to a couple of
30 years doing multiple other things including litigation. I did some litigation, as a
31 junior associate, helping out the other senior litigators, but my practice was focused
32 right initially on the business transaction side.

33 **CARUSO:** When you started here in the San Diego area, what sort of businesses
34 were you involved with as part of the law firm? Was it just any business in the area?
35 Was the law firm focused on specific types of industries, or was it just very broad-
36 based?

37 **BELL:** We were, I think, the largest law firm at that time with 30 attorneys, where
38 now we have over 4,000 attorneys. As a large law firm, yes, we did anything that was
39 needed, maybe excluding criminal law and some of the smaller kind of matters.
40 Certainly from the business community standpoint, we do everything. Real estate
41 was by far the biggest industry in San Diego at that time, savings and loans and
42 banking aspects of it. Aerospace was a big part. General Dynamics was one of our
43 biggest clients. They employed 50,000 people down here in San Diego. So that was a
44 big operation.

45 We did all the work for – Pacific Bell, the phone company at that time. My practice,
46 as a real young junior attorney, would get some of the smaller matters for some of
47 the biggest clients, but then for some of the smaller clients, we get larger matters.
48 One of the clients I did a lot of work for early on was the Hospital Council of San
49 Diego and Imperial Counties. I started getting exposed to what was a very new
50 specialty, especially then, called hospital law or healthcare law. In fact, when
51 National University first opened here in the early '70s, I taught the first class in
52 hospital law.

53 Most of my career since then has been more in the technology and life science area.
54 Working for hospitals is what initially got me into some of the life sciences,
55 particularly the Scripps Clinic and Research Foundation, and some of those kind of
56 organizations that had both physicians and hospitals and researchers. So short
57 answer is a broad kind of client base.

58 **CARUSO:** You said that there were small matters for big companies and big matters
59 for small companies. What sort of issues were you dealing with?

60 **BELL:** A lot of it is financing, getting money for new businesses to start and a lot of it
61 is just pure contractual relationships, supplier relationships, marketing relationships,
62 but a lot of it is just forming new businesses. I probably have signed the Articles of
63 Incorporation for 400 new corporations just forming new entities, and most of them,
64 of course, failed. Many of them did succeed and end up being bought out by big
65 companies.

66 **CARUSO:** What was some of the work you were undertaking for Scripps in the early
67 years? I know you were there from 1971 to 2001 or you worked with them actively
68 from 1971 to 2001?

69 **BELL:** Well, first there is a little preface on the name Scripps because it's multiple
70 institutions. There is a Scripps Institution of Oceanography, which is part of
71 University of California, which is totally different. In about 1924 Ellen Browning
72 Scripps formed the Scripps Metabolic Clinic and our firm was involved with some of
73 that formation way back then. Later it migrated into what was called Scripps
74 Memorial Hospital, which is still very active and one of the two largest health care
75 providers here in San Diego County. About 1954 that split off into two other entities.
76 One – Scripps Clinic and Research Foundation, which was both research and
77 physicians; and two – Scripps Memorial Hospital, which is just the hospital that had
78 independent physicians.

79 So from 1954 until about 1992, they were two totally separate independent entities,
80 no crossover in the boards or anything like that. I did work for both of them. The
81 one that migrated into life science biotech practice for me was the Scripps Clinic and
82 Research Foundation. The things I did for them were a lot of their corporate matters,
83 a spin-off of what is now known as the Scripps Clinic Medical Group, just the
84 physician group. We formed an entity called Green Hospital of Scripps Clinic. It was
85 funded by Cecil Green out of Texas Instruments. So I handled corporate matters as
86 well as hospital-based physician matters. Scripps Clinic and Research Foundation
87 had a lot of research going on funded primarily by the government.

88 Patents were coming out of that research, and some of what we now called big
89 pharmas, or just pharmaceutical companies, started getting interested to license

90 some of that. I was the one on hand to do the contracts. I started doing licensing
91 contracts. One of the real early ones was a company called Revlon and we think
92 more as cosmetics, but they were in the biopharmaceuticals at that time and they
93 later became Rhone-Poulenc Rorer and now Aventis. That was one of the real early
94 licensing deals for Scripps Clinic and Research Foundation.

95 There were other license agreements with Miles Laboratory, which was associated
96 with Bayer; and Lilly, and later with Johnson and Johnson; and PPG Industries; and
97 Sandoz, and multiple different companies, big and small deals. Some were just pure
98 patent license and others were strategic funding relationships that would have some
99 type of rights of first refusal to have the first look at some of the new technologies
100 coming out.

101 **CARUSO:** So coming into these relationships, I'm assuming you were working with
102 individuals on both ends, the one who wants the license and the people with the
103 patents, right? I have two questions, especially coming from the Scripps side of
104 things. Was the institution itself going out there and trying to find companies
105 interested in the technologies that were being developed, or were individual
106 researchers the ones trying to initiate some sort of contact because they realized that
107 they had something that could be useful more broadly. Or were you not privy to
108 those sorts of discussions?

109 **BELL:** Yes, I was privy to them. Well, it certainly started out, with the researchers,
110 and the institution was, what I'll call an innocent bystander, and yes, it was also
111 some of the physicians. Most of the researchers were pure researchers. Some were
112 both researchers and MDs with patients. But the early ones were all motivated by
113 the researcher being involved with colleagues at pharma and they would be talking
114 about some of their research, and relationships would get established at that
115 research-researcher level. I wouldn't be involved at that real early stage of research
116 and researcher.

117 But once the researcher said, "Hey, I think I've got something here," then, in this
118 case, it would go essentially to the Scripps Clinic and Research Foundation
119 management. Then they brought me in at that time. There would be decisions made
120 whether to spend money for patenting it and whether to make some proposals for
121 out-licensing it. From that time on, once there was an interest shown by a researcher

122 at a pharma, then it would be elevated – I shouldn't say elevated – it would be moved
123 to management of both institutions to work out the deal points.

124 **CARUSO:** Over time, did that start to change? I know in some ways, we're talking
125 about a very expansive time period. Did larger institutions start having a more
126 centralized system where they were not just waiting for researchers to come to them
127 and say "Hey, I have this thing," but they were actively developing? Maybe an office
128 focused on pursuing patents and things like that, having a more formalized system
129 than just researcher bringing things to management?

130 **BELL:** Yes, from both the researchers' side and the big pharma side, both then
131 institutionalized. At Scripps Clinic and Research Foundation, a man by the name of
132 Ray Kahn, Ph.D., researcher, scientist himself, who went in more than the business
133 side later, was the first Tech Transfer Officer for Scripps Clinic and he would actively
134 go out and try to promote. He mined the halls of the researchers and asked them
135 what they were doing and tried to figure out what might have commercial
136 applicability and he became one of San Diego's first professional Tech Transfer
137 Officers. He passed away probably 20 years ago now. Similarly the big pharmas
138 started doing that as well and they've got very established organizations, I mean,
139 people, departments within their organization to go out and look for things. Now
140 research institutes and universities all have their websites that they promote it on.
141 So both parties know that they should have a symbiotic relationship and both are
142 reaching out. Still a lot of it takes place at the scientist to scientist level, but there is
143 a parallel going on of institution to institution relationships.

144 **CARUSO:** I could imagine that some institutions, certainly development
145 institutions, would go through the process of looking for a company that would be
146 interested in a certain technology. I don't know if shopping around is the best way to
147 express it, but were they looking at different companies to – did they focus products
148 or trying to sell certain products to certain institutions? Did they just have a sort of
149 an open door "we're trying to get this out here" and they just advertised it to
150 multiple companies? How is it – how were things being advertised or brought to
151 various institutions? Was it specialized? Was it just putting things out there?

152 **BELL:** Well, both from a university standpoint as well as a research institute
153 standpoint, they would sort of like to feel there is a bidding war, they'd like to feel
154 there are multiple parties going after their same technology, but that would happen

155 only 5 percent of the time is all. 95 percent of the time, it would be because the
156 researchers need to publish and they get the publications out promptly and they go
157 to conferences and they like to have their colleagues and other institutions around
158 the country and world know what they're doing. So they're promoting what they're
159 doing. And it has become known that that – in this case, at Scripps or later at Salk or
160 later at what is now Sanford-Burnham, a place like – that there is a researcher here
161 that is really making progress in a particular area and that becomes known, and a
162 company that has a real interest in it will be the one to come in and start asking
163 "Can we have some licensing rights for it?"

164 One of the real early ones was Revlon. It was for Factor VIII, a blood clotting
165 technology, and that was, I think – I forget the real financial terms, but like ten years
166 later, the successor to Revlon paid like a hundred million dollars to buy out the
167 license rights. It was a big success. At that time Revlon was interested in blood
168 clotting. So that was a good match. But I'd say 95 percent of the time, companies
169 sort of know what is going on at the research institutes and universities; and
170 universities know which companies are really trying to get into that medication field.

171 **CARUSO:** It sounds like a lot of this is either based on companies being aware of
172 publications coming out or possibly direct relationships with or knowledge of
173 collaborators or scientists – scientists who work conferences and picking up
174 information. I was wondering if there was anything going on in the San Diego area
175 more generally to foster interactions among these research institutes and the
176 companies that were investing in the technologies coming out of the San Diego
177 area?

178 **BELL:** We have to clarify that we're talking over a 40-year period and what I've been
179 saying so far has been primarily in the early, let's say, the '70s. And just as all the
180 organizations started getting tech transfer officers or development offices in the 80s
181 and '90s, certainly things migrated and it's a little bit of what I'll call data overload.
182 In the earlier years, there wasn't as much going on and so it was easier to know by
183 word of mouth what was happening. Yet nowadays and certainly in the '90s and the
184 2000s, there is so much going on that you do have to have more organized
185 structures. As far as San Diego itself, certainly the organization CONNECT came
186 into being in about 1985 and was doing a lot in that arena, organizing conferences
187 and having meet-and-greet programs.

188 I don't remember if either Scripps or Salk or Sanford-Burnham actually had
189 symposiums with the pharma companies invited. They certainly had a lot of
190 symposiums going on with other scientists in a particular scientific field, coming for
191 a year or so. I don't know for sure, but my guess is some scientists from pharma were
192 invited, both because they knew it was a good symbiotic relationship and they
193 wanted to tap what they were doing. They wanted their colleagues to know what
194 they were doing. I think there was an element of everybody trying to help everybody
195 else, not a matter of "we're this little silo and we want to protect everything for our
196 sake." Just the nature of scientists, they want people to know what they're doing.

197 **CARUSO:** So more collaborative and less competitive?

198 **BELL:** Correct, definitely.

199 **CARUSO:** So one of the things I am curious about – and I'll try to keep to the general
200 time progression on things – but in the '70s, I know you were working with Scripps,
201 a relatively large institution. Were there other companies coming up in the life
202 sciences area that either you worked with directly or you at least had some sort of
203 knowledge of? One of the big things in the late '70s was the boom in biotechnology
204 in the San Diego area. With hindsight, we can see everyone that was there. Were
205 people aware of those companies at the time? Were they making a name for
206 themselves, or is it something that we just recognize now?

207 **BELL:** Well, the first biotech company I did work for was Hybritech and I
208 represented the founders: Ivor Royston and Howard Birndorf. It was funded by
209 Kleiner Perkins and that would have been, I'd say, in the late '70s. That was
210 ultimately a huge success and it became well-known in the community. That – yes,
211 that spun off a lot of other little companies. I think biotech was considered a good
212 hub for San Diego when an organization, now known as Biocom, was first formed. It
213 was formed primarily to lobby to city and county governments to protect water
214 rights because the biotech industry was using a lot of water, and we were having a
215 drought then as we are now.

216 There was a great need to cut back in water and ration and restrict. The biotech
217 companies – actually David Hale at Hybritech, at that time, was sort of the leader in
218 organizing Biocom to go to county governments and say "We want special attention.
219 We want preferential rights. We want to keep our water." The two county

220 governments gave – I shouldn't say gave in – they recognized the wisdom of doing
221 that for protecting jobs. Back at that time, I think there were 10,000 people
222 supposedly employed in the life science biotech community and that's fudging
223 numbers a little bit. That was kind of the PR and we thought we can grow to 50,000.

224 I can remember David Hale talking to the city council saying "protect this industry.
225 It's projected to go to 50,000." Now my guess is we're still not quite there, but yes, I
226 would say the community embraced life science industry here as it was starting to
227 grow and became better known as it just started to exist. I would say the same with
228 telecommunications industry and the software industry.

229 Each of those has been well-embraced and now we have sports equipment industry
230 and the clean tech industry. So yes, I think San Diego community and governmental
231 organizations have been very responsive and favorable for these new technology
232 industries.

233 **CARUSO:** Can you tell me a little bit more about your involvement with Hybritech
234 in the early years, maybe a bit about what your sense – you are in the interesting
235 position of helping a company in its early years. You were helping them find
236 financing.

237 **BELL:** Well, let me clarify a little bit. I never formally represented the company,
238 Hybritech. I represented the founders and this was, as I say, this was one of the real
239 early ones in California. So there wasn't a kind of standard way to do things the way
240 it is now or the customary way to do things. But Brook Byers of Kleiner Perkins was
241 willing to put up a few hundred thousand dollars to fund this company and Brook
242 was – or Kleiner Perkins was represented by Tom Sparks of the Pillsbury Madison
243 firm up in San Francisco. Tom Sparks was their attorney and he actually called our
244 firm because our firms had a lot of relationships over the years. He said, "Conflict of
245 interest, we're going to be putting some money into this company and these
246 founders and the owners ought to have their own attorneys." That is how we started
247 representing Ivor and Howard on the formation of Hybritech.

248 But money talks and Kleiner Perkins was able to dictate what they wanted. Neither
249 Howard nor Ivor had ever done anything like this before. They were happy with
250 what was given and that is how that organization went forward. A few years later, I
251 represented Howard in another company by the name of Gen-Probe and we got

252 some of the initial funding out of Hybritech. In fact, just the day before yesterday I
253 think it was, I was with Tim Wollaeger, who was CFO of Hybritech at that time. He
254 and I were reminiscing on meeting in the Hybritech boardroom to negotiate the
255 formation of Gen-Probe and there was a scientist at Hybritech by the name of Tom
256 Adams that was one of the three co-founders of Gen-Probe that I was representing at
257 that time.

258 So we were talking about, at least at that meeting in the Hybritech boardroom, how
259 much money will Hybritech put up, what kind of risks they were taking, and
260 allowing Tom Adams to leave Hybritech to go work in this brand new company,
261 Gen-Probe.

262 **CARUSO:** So two questions, and again, I realize that there is confidential
263 information that you can't talk about, but I am curious to know a bit about what sort
264 of relationships Ivor and Howard were looking to have with companies that were
265 interested in investing with them? Were they willing to just be bought out
266 completely? Did they just want investors because they knew that they had a good
267 product and they needed financial support? What were the expectations generally
268 from someone like Kleiner Perkins with regard to their investment? What were both
269 sides interested in gaining from the relationship?

270 **BELL:** Well, at the early stage of formation, everybody knew it was just a big gamble
271 crapshoot. Ivor thought he had a very good technology and Brook Byers was wise
272 enough to see it had some potential, but it was totally unproven. It was all hope and
273 a prayer. So from Kleiner Perkins' standpoint, Brook Byers' standpoint, they thought
274 it was a reasonable risk, but they would have – if you had asked them then, they
275 would just said it's probably a 20 percent, 10 percent chance of success and
276 80 percent chance of failure.

277 I think from Ivor's standpoint, he is an eternal optimist and most entrepreneurs are.
278 Scientific entrepreneurs are eternal optimists. He thought, "Hey, I think this is great.
279 I think it's going to go." He was not looking to "I want to become a millionaire" or "I
280 want to be with this for five years and sell out" or anything like that. It was very
281 much "I'm proud of this technology and I think it can really help mankind." He was
282 totally scientifically focused and medical application focused, not at all financially
283 focused. Howard is a little bit more financial. Although he had scientific training, he
284 was much more of a manager. He did a lot of the science work, too, but Ivor just

285 delegated to Howard to handle any of the business kind of matters. So Howard
286 jumped into this role, jumped into it very well, and has been successful in several
287 other companies since then.

288 **CARUSO:** Another interesting thing about Hybritech, and please correct me if I'm
289 wrong, Ivor was still – although the business was starting, he was also still a member
290 of UCSD at the time.

291 **BELL:** The VA Hospital, yes, which was run by UCSD.

292 **CARUSO:** UCSD. Was that something that had to be factored into the negotiation
293 since, I believe, some of the scientific work came out of what he was doing. He
294 informed the business and then start investigating a new technology, but some of
295 this came out of research that had happened previously. Was that a concern for the
296 other institutions involved, the sort of the parent institution that was originally
297 sponsoring or supportive of Ivor's research?

298 **BELL:** I don't know all the details and I probably don't want to get into it too much.
299 There has been some publications on this. There's – I forgot the name. I believe it's
300 something like the Life Science History Program or something like that. There were
301 some biological materials from England and Ivor had been to England and had some
302 materials. But no, those issues didn't really come up at all in the early formation.
303 Science at that time, academic science at that time, was a little more cowboyish; and
304 scientists did what they thought was right for mankind. There wasn't nearly as much
305 emphasis as there is now on what I call “material transfer agreements” and
306 “restricted use rights” for what is being done and even things about how – somebody
307 would put up the funding such as NIH or VA trying to retain rights. There was very
308 little of that in the '70s.

309 Just maybe a little side step here, just to give an impression. In about 1980 is when
310 the Bayh–Dole Act came into play that allowed universities to own their inventions.
311 Prior to that, the NIH owned them and they seldom did anything with them. Once
312 universities started to be able to own their inventions, that's when people started
313 saying "Okay, let's see if we can out-license; let's see if there is commercial benefits."
314 About the same time in the early 1980s, is when the Federal Circuit Court came into
315 existence. It was the appeals court for all patent cases. Prior to that, patents weren't
316 nearly as valuable because there would be different decisions all across the different

317 states and most of the patents were not upheld. Once the Federal Circuit Court came
318 into play, they really started saying "We're going to enforce patents and we think
319 most patents are going to be enforceable." And I don't know the statistics, but I
320 would say like 80 percent of all patents were found enforceable and so patents
321 became very valuable.

322 So it was a big deal for both of those, Bayh–Dole Act with the universities taking
323 control of the commercial rights, and patents being upheld and very valuable. These
324 caused a lot more money to start flowing in; and the formalization of commercial
325 rights for science. Prior to that, it was more science for science, and it was felt that it
326 was bad to have a scientist go into business. That's going to the dark side. So from
327 the mid--'80s it was total reverse. Scientists thought it was a better to form a
328 company or to get a patent than it was just to have a publication. It's kind of a sea
329 change there.

330 **CARUSO:** On a similar issue, I can imagine that as much as you may want to
331 advertise the work that you have done to get interest from a larger company, when
332 you go out to found a company or start a company, you may not want to be
333 publishing results from what you're working on, right? If you want to have a patent,
334 but you've published in the scientific journals and advertised in scientific
335 conferences what you're working on, that might complicate the issue of being able to
336 have a patent on things or not be scooped in some ways by someone else. Was that
337 ever a discussion that you were involved in with the founding of companies? What
338 the scientists could actually publish on? Especially with other companies coming in,
339 being interested in specific technologies, they may not want your scientists, the
340 smaller company scientists, publishing material that would in some ways threaten a
341 patent or something like that.

342 **BELL:** Well, it's always a topic and yes, I've been involved in a lot of those
343 discussions. The ground rules are that if it's been funded by the government at a
344 university, at a research institute, it has to be published. If a journal is willing to
345 publish it, you have to try to publish it. But even there, if it looks like it's got the
346 commercial value, a patent application or at least a provisional will be filed in
347 advance of that publication or in advance of the report or the conference, so as to
348 preserve the commercial rights; so you get the benefit of both. You get the publicity
349 of publication plus you get your patent filed so you get to protect it. If it's research

350 results or an invention that's coming out of the company, and not out of either the
351 university or research institute, then yes, there is a choice whether to publish or not.

352 I've seen arguments going both ways. Some companies will say "we want to have a
353 publication, and of course, get our patent application in first, but have a publication
354 to help us raise more money later. That will help us get interest from the big
355 pharma, because they'll see it and they'll know about it." This approach is used by a
356 lot of the small biotech companies. Some of their business plans are "let's get one
357 publication by this date, let's get another publication by that date." Even the small
358 public biotech companies, they will try to have some PR with a new publication out.
359 That's just part of their business plan, their PR plan, to keep showing and making
360 progress, because the small biotech company is always in the mode to raise money
361 or attract good people and those publications help with that.

362 Other companies will make the decision that "we want to keep this secret, we want
363 to keep it under the radar screen, we don't want our competitors to know what
364 potential products we're coming up with or what focus our science is going in, and
365 we want to delay the patent publication as long as we can." It is more of a keep it
366 secret or keep it low on the radar screen. So those two alternatives are strategic
367 decisions that do get made very much so in the smaller companies.

368 **CARUSO:** Can you tell me a little bit about how the spin-off, Gen-Probe, worked?
369 Because again, that's another situation that I think is quite interesting where you
370 have a company coming out of, a company already in existence and clearly there's
371 going to be, I would assume, intellectual property rights and those sorts of
372 discussions. How did the formation of Gen-Probe actually come about? What were
373 some of the – again, within what you can say – what were some of the concerns or
374 the discussions about the formation of a company from an already existing
375 company?

376 **BELL:** It's not quite true to call it a spin-out, but they're related and I'll try to give
377 you facts and background.

378 The Gen-Probe technology was invented by a scientist by the name of David Kohne
379 with a "K," David Kohne, who is still around, still a good scientist, but he is a little bit
380 more of, what I call, a lone wolf. He likes to do things on his own. He had been at
381 Scripps. He had been at what is now known as Sanford-Burnham, which at that time,

382 was called La Jolla Cancer Research Foundation. But he was totally on his own later
383 on, and he came up with the technology that Gen-Probe was founded on. I think it
384 was Howard Birndorf that became aware of David Kohne and said, "Hey, I think this
385 could be commercialized." Again, David was very much science-oriented and didn't
386 want to have his hands dirtied with business matters. He's just a true scientist from
387 that standpoint, and not trying to meld business and science together.

388 So Howard was the impetus to say "let's make a company out of this" and Howard
389 then attracted Tom Adams, who was one of the top scientific executives at
390 Hybritech, and the three of them formed a little partnership and I did the legal
391 work – it was a true partnership; it wasn't even a corporation – to do a little internal
392 seed funding to scale up David Kohne's technology for more of a lab test or for
393 diagnostic test, I mean. Once that seemed to be more successful, that's when it was
394 decided "yes, let's really make a company out of this, make it into a corporation, try
395 to raise money." That was all about a year's time period that such stuff took place.
396 For the first funding, we went to Hybritech to try to get them to put up what
397 amounts to seed money. I think they put up maybe 15 or 20 percent of the money
398 needed. Because Kleiner Perkins, Brook Byers, had a good success with Hybritech,
399 just knowing that Hybritech was going to invest in Gen-Probe, Brook Byers and
400 Kleiner Perkins invested in Gen-Probe. So that is what got the real money in. They
401 became a real company and owned facilities and hired people and went on from
402 there.

403 **CARUSO:** So I guess using the term "spin-off" was inappropriate because the
404 developments didn't occur within Hybritech itself.

405 **BELL:** Correct.

406 **CARUSO:** It was external. It was Kohne's technology. It's just that there were
407 individuals from Hybritech and I assume they were staying at Hybritech during
408 those initial. So they separated their relationship from Hybritech. Howard and Tom
409 Adams were not at Hybritech when they developed the partnership with Kohne?

410 **BELL:** That I'm not sure of. Tom Adams was still a full-time employee at Hybritech
411 when the partnership was going on and he may have even stayed in some
412 relationship at Hybritech even after Gen-Probe was formed. I think Howard had
413 already left Hybritech by then, but I can't remember for sure.

414 **CARUSO:** What I'm curious about in this instance is if there are – Tom Adams was
415 at Hybritech. Then could there be the potential for conflict of interests if the route
416 that Kohne's technology was going, in some way, overlaps with things that were
417 happening at Hybritech? Adams' commitment to two different companies at the
418 same time could be a conflict of interest.

419 **BELL:** Well, definitely, today that is a very highly sensitive issue and a lot of
420 precautions are taken. Even back in the '80s or whenever it was that Gen-Probe was
421 formed, it was a conscious issue. Tom is a very honest, ethical kind of person. I'm
422 sure he would have at least told Ted Green or David Hale or some of the people,
423 "Hey this is what I'm doing on the side." There would have been a consensus that
424 hey it's not a direct conflict; it's not a problem since both are in totally different
425 fields. And yes, spend some of your weekends, evening times on it. If there was any
426 potential issue of a scientific or business overlap or conflict back then as well as now,
427 people definitely shy away from it and not try to do something through the back
428 door.

429 **CARUSO:** Now you mentioned a little bit about Biocom water rights. I am also
430 interested in knowing if there were other things happening in the San Diego area
431 that fostered the development of the technology community here. I know you
432 mentioned life sciences, use of water rights, and things like that. And you mentioned
433 the formation of CONNECT in '85, which I know that has been influential, but was
434 the city itself doing anything in terms of laws or policies that contributed to the
435 development of San Diego in this early time period as a place for people to come to
436 start a company and to pursue that avenue of the scientific life?

437 **BELL:** Kind of yes and no. Before I came here in '68, I would say in the early '60s, the
438 city council was very progressive in dedicating some land up in the Torrey Pines
439 area, which used to be a military base. The city acquired ownership of the land and
440 dedicated it for scientific research. That's why Salk centered there. That's why UCSD
441 centered there. That's why Scripps moved. Scripps Clinic used to be down on
442 Prospect Street in the Village of La Jolla. That's why Scripps moved up to Torrey
443 Pines. That's why Sanford-Burnham established their facilities there. And General
444 Atomics got their facilities up there. The land was zoned for science uses. There
445 wasn't any money from the city, I don't think, that went into any of this.

446 But the city, starting in early to mid-60s, made it very user friendly for technology
447 and science organizations to establish up there in the Torrey Pines Mesa area. Other
448 than that, I'm not aware of any favoritism in laws or things of that nature, or
449 financing or extra support on building permits, or anything else like that the city did
450 at that time. Certainly the university moving here in the early '60s was a huge boom.
451 It attracted the kind of people that are going to form companies and have the
452 technology to be able to be the foundation or core for technology business.

453 **CARUSO:** Part of this overall project is trying to understand why San Diego? Why
454 are there so many companies that came here and started up, especially in the late
455 '70s, the early '80s? People have mentioned a lot of different factors, but not many
456 people have known about these things from a legal perspective, whether or not there
457 were laws or zoning or things like that that fostered such an environment as well. So
458 that's where my question was coming from in trying to understand what it was about
459 San Diego that made it so attractive to many individuals and so many companies in
460 those early years. I don't know if you have any other thoughts on that generally.

461 **BELL:** I don't think I do from a standpoint of laws, as opposed to just the right
462 people were here. Certainly General Atomics was a huge – some spin-offs came from
463 there: Linkabit people ultimately migrated and formed Qualcomm. There is another
464 company named ComStream that came out of that. It's more that the people were
465 here, I think, as opposed to any governmental support.

466 **CARUSO:** Now we've focused quite a bit on those early years. I'm also interested in
467 changes that you might have seen over time. Let's start with what companies are
468 looking for in terms of starting up. I know that Ivor had conducted or he
469 participated in oral history years ago, talking about his experiences. You mentioned
470 this as well that a lot of scientists in those early years were looking to get what they
471 were doing out there for use. Since there is no way for the basic science that was
472 being produced, necessarily to make it to the public good, one way to do it was
473 through founding companies. The purpose was to make those companies grow,
474 develop them, and have them play an important role in the life sciences and other
475 industries. I'm wondering if that sort of general attitude is still what is happening in
476 the area. Or are people founding companies for different reasons now? You hear a
477 lot in the computer industry, for example, in Silicon Valley that people, they don't
478 necessarily want to start something big. They want to start something, that thing

479 immediately gets bought out by a larger company. Is it a similar attitude here? Has
480 that changed over time?

481 **BELL:** I think there has been a migration, and again, in the early years of the mid-70s
482 and early '80, there were many fewer start-ups and I would say 90 percent of them
483 would say: "hey, we've got a good technology. We think it would be good for
484 mankind and the money is kind of secondary." I would say now there is such a bigger
485 universe; people starting companies, both businessmen and technology scientists. So
486 you're going to get a broader range of motivations, but this is pure guessing. I would
487 say in the life science field – and again maybe divide that between medical devices
488 and drugs and biologics – I would say that the biologics and drugs, it's more 50/50 --
489 that maybe 50 percent of them would like to have a good business and financial end
490 result, irrespective of whether the technology ultimately is big success. But it takes
491 ten years to know one way or the other. So with that kind of timeframe, they hope to
492 see financial success in the ten years even if the product fails in the 15th year or
493 something like that.

494 When I say 50/50, I'd say there is another 50 percent who believe they just invented
495 the best thing since sliced bread. They're very hopeful and optimistic. This is going
496 to improve mankind and improve medicine and reduce costs and be more efficient
497 and effective. So I think there is 50/50 there, whereas before it was maybe 90 percent
498 of them were more for the benefit mankind basis.

499 I would say in the software and the telecommunication technologies, it's probably
500 75 percent or more financially motivated; and seeing their baby grow up to be cute
501 and pretty and well-received by the community is maybe only 25 percent. But those
502 are just rough guesses.

503 **CARUSO:** Have you seen the funding for start-ups change over time? Are there
504 different players now? Are there different investors? Obviously things are going to
505 change over time generally in terms of who the players are, but are you seeing more
506 or less of certain types of investors? You have large venture capital firms now and in
507 the early years, more commitment from pharma. Who is really looking into funding
508 these start-ups? And how has that changed over time?

509 **BELL:** It has changed tremendously and it keeps changing. It's a moving target. It's
510 almost a little bit "what's the flavor of the month?" For a while, big pharma wouldn't

511 look at anything unless it was in phase three. Then for many years they would look
512 at anything, even if it just had animal data on it. They have gone back and forth as
513 far as pharma and pharma's own investment or venture capital investment arms.
514 They had a lot of them for a while and they're not quite as many now or not at least
515 as active as they had been. So there is continuous change. In the venture capital
516 community, there have been some stalwarts, and certainly Kleiner Perkins is a good
517 example of that, that have stayed and continued to be successful and continued to
518 invest in both early stage and late stage companies.

519 During the latter '90s and the early 2000s there were – I don't have the number – but
520 let's say there were ten times more venture capital firms than there were ten years
521 earlier. There are probably not as many venture capital firms now as there were in
522 1999. The number of venture capital firms have gone down. I forget what the Kleiner
523 Perkins investment in Hybritech was, but I'll say it was \$300,000 and that was a good
524 amount at that time. Now my guess is they wouldn't touch anything unless they put
525 five million into it, because they spend a lot more time on due diligence and they
526 have a lot more choices. If a venture capital firm is going to put in money, they'd
527 want to put in enough to warrant their time for investigating it, managing it, and
528 monitoring it. Angel funds and private individuals that have a couple of million
529 dollars to invest will spread the money out among multiple different companies,
530 maybe only \$100,000 here, and \$200,000 there.

531 Maybe just to give a little example for that, our firm, our law firm DLA Piper, has had
532 a venture fund for probably 20 years or so; and I have served on that committee the
533 whole time. We've probably invested in 200 companies or so, and most of them are
534 our own clients. Twenty years ago when we started investing, we would have maybe
535 three people on the committee look at the business plan, look at the projections,
536 interview the entrepreneurs, and really understand the company; we would look at
537 ten pages of info, and do four hours' worth of analysis. That's gradually migrated to
538 where it's essentially, one person on the committee looks at a one-page summary
539 and makes a recommendation. The other committee members will look at that one-
540 page summary. There are six people on the committee and each committee person
541 probably spends five minutes; and the person who does the extra review maybe
542 spends ten minutes. Then we make a decision based on that. We understand that
543 most of them are going to fail, but if we get a few that hit home runs – that's good.

544 **CARUSO:** So why do you think less time is spent now, given that there's so many
545 more? Is it just because the volume is so high that there's so many more companies
546 out there?

547 **BELL:** Well, everybody probably has got their own personal attitudes. I just gave
548 mine and I can't really speak for other people. I make my decisions based first on
549 who the entrepreneur is, and what their track record has been, and what they are
550 committing to it, both time or money. Secondly, I look to see who else is investing;
551 whereas before, we did a lot of our own due diligence. Now we primarily ride coattail
552 on venture capital funds that are doing the due diligence. So we look to see who is
553 investing and who has been doing the due diligence.

554 Third, we look at the technology. Fourth, we look at the market. Do we think this is a
555 technology that can be well-protected; and what is the potential upside in the
556 market? Is it kind of a me-too product, or is it one that if it does succeed, it's going
557 to be the game changer and it will have a big market then.

558 So those are all guesses. All four of those factors are just judgmental guesses. So it's
559 not as much as feeling that you can study the numbers and study patents and make
560 a strong prediction based on that. It's pure guesses and that's my personal view.
561 Others are going to have different approaches.

562 **CARUSO:** Part of my question, what I was trying to ask is when looking at all these
563 different technology firms. For example, I interview scientists on a regular basis and
564 they come from a lot of different fields and there is no way that I can be an expert in
565 every single area of science that I interview people about. So I have a general
566 understanding of the significance of the things that those individuals are doing, but I
567 don't know if I could come up with or if I would have the expertise to make
568 judgments about how something is going to fit in a certain field. Is that something
569 that you have gained over time just working with these companies, a better
570 understanding of the meaning of the technologies that they are developing, and
571 what sort of technologies they might be competing against?

572 **BELL:** No, for me, and I feel that is a disadvantage. I have a partner named Lisa Haile
573 who is a scientist and a patent attorney; and I really admire her because she not only
574 knows the legalese that will get the good patents, but she also has a good sense for:
575 is this something that can be commercialized, whether it's to be scaled up, whether

576 it's to be put into a product, or whether it's to be manufactured? That is a skill that I
577 don't have, that I wish I had. But I have been able to still have a career in this area by
578 saying "I don't know the science part, so I'm going to rely on someone else to
579 evaluate the technology." I get back to Ray Kahn from Scripps, who was their first
580 Tech Transfer Officer. He was very good about wandering the halls to talk to the
581 scientists who might say: – "Hey, this is really new data. This is great stuff, isn't it?"
582 But, the scientist had no idea that it could be commercialized. And Ray Kahn would
583 say, "Hey, I can see how you can make a product out of this. This could be a
584 diagnostic product or something like that." One person usually can't do it all; and
585 that's the weakness I have. I readily make sure somebody else is doing the scientific
586 evaluation part of it.

587 **CARUSO:** And so, a follow-up question is since you mentioned that often people rely
588 on the – since other places are investing, you are getting a sort of validation from
589 those companies. Thinking about something like Forward Ventures, which I've
590 spoken with Stan Fleming about things, I know that he and Ivor started Forward
591 Ventures. I'm not sure whether or not that is a unique discussion where you have
592 someone like Ivor as a core component of this venture capital who can realize those
593 scientific things. In terms of the venture capital firms that you know of, are there
594 individuals in those firms that are really very scientifically-minded or come from
595 science directly that can lend that sense of knowledge, sense of expertise about
596 whether or not something is or has the potential to be playing a major role in the
597 scientific arena as a possible product?

598 **BELL:** I would say definitely yes. I'll use this as an example for Enterprise Partners, a
599 UC firm in San Diego. An M.D. by the name of Drew Senyei is very much the same
600 ilk as Ivor, where both were MD's, but both became quite successful scientists and
601 entrepreneurs. I've seen Drew on board meetings and discussions; and he really
602 focuses in on how the technology can be commercialized, or what the weaknesses
603 are going to be. Most all of the successful venture capital funds either have one or
604 more of their partners with either very good science or technology street smarts, or
605 they'll bring in consultants in a particular area.

606 Because most of this is breakthrough science, they're not going to have any partner
607 that's going to be familiar with all the new technologies. So, yes, they will readily
608 seek out consultation from others, such as for science, technology, or medical. You
609 may have physician consultants to do analysis and investigation for the topic – are

610 physicians likely to adopt this kind of a new treatment regimen. Physicians are very
611 slow in adopting new things. So it is important to learn if a new thing is going to be
612 an uphill battle to convince physicians that this new thing is the best thing to do? It's
613 hard to make physicians change their ways.

614 **CARUSO:** I was just looking at over the questions I have and there's only one thing
615 that I specifically wanted to ask a little bit more about. After asking that though, I
616 want to give you the chance to talk about anything that hasn't been covered that you
617 would like to talk about. One thing I did want to go into a little bit was what your
618 knowledge of CONNECT has been and whether or not you've had any involvement
619 with that organization over time?

620 **BELL:** Yes, I had some knowledge of it and yes, I've had involvement with it. Number
621 one, I think it's a very good organization and it's done an excellent job. I guess my
622 first involvement was when Mary Walshok, who is a Dean of the Extension program
623 as UCSD, came to our offices at Gray Cary to solicit money and solicited us to help
624 get that thing started. She had the buy-in from Dick Atkinson, the then chancellor.
625 Also involved was Bob Weaver, an account with the accounting firm by the name of
626 Haskins and Sells or Deloitte Haskins and Sells, and Buzz Woolley. Those are the
627 two I think that came to our office with Mary, to see if we would be one of the
628 original sponsors. CONNECT means "connecting" the service providers, the
629 academic, and the business people and organizations.

630 So we were one of the service providers and we joined in early on. I don't remember
631 the exact dollars for sponsorship, but I think it was like \$2,000 or something like
632 that. Maybe six months later, CONNECT hired the first full-time executive
633 employee, Bill Otterson. Barbara Bry might have been a part-time employee. Mary
634 was saying \$2,000 will get CONNECT going, and CONNECT will be self-supporting
635 thereafter with either university money or participant's fees. As soon as Bill came
636 aboard, Bill said: "Oh, it wasn't \$2,000; it was \$4,000; and it's an annual sponsorship
637 amount." I remember it was at a pool party where he broke that news to me.

638 Now that Bill Otterson was on board, we needed to have all these sponsors put up
639 the money regularly. So anyway, that's just a funny little back story. But yes, Bill was
640 very successful in identifying new technologies. It was primarily life sciences,
641 telecommunications, and software. CONNECT has expanded in a lot of other areas
642 since then. I served on the CONNECT Steering Committee for three or four years in

643 the early years. CONNECT gradually grew; and I think CONNECT did a lot of great
644 things.

645 For the last ten years, I've served on what's called the CONNECT Entrepreneur Hall
646 of Fame Committee. There are about half a dozen of us that meet and try to select an
647 annual candidate that deserves Hall of Fame recognition. We've had about a dozen
648 people during these past ten years, and so that's been a very successful program. At
649 the Hall of Fame luncheon, the honoree's history is presented, and the honoree is
650 presented, and the honoree is interviewed about his background and experiences.

651 **CARUSO:** You mentioned especially in the early years you were on the steering
652 committee, whatever it was called, and I know that from what other people have said
653 that Bill's vision was important for where the organization went. I want to hear a bit
654 more about what it is that CONNECT thought that it could do in those early years
655 and how it wanted to go about doing that.

656 **BELL:** Well, I'm only one person, so I see it from my view and others might have
657 different views – I would say when I first started out, CONNECT was trying to
658 promote the University of California at San Diego. CONNECT was kind of
659 headquartered there, staffed there, and initially got some funding from there.
660 CONNECT was to try to help scientists get their technology commercialized. The
661 university, I think, always wanted to be part of the community; and CONNECT was
662 another way to get the university and the community together. So I think it was
663 primarily trying to promote the university. CONNECT has since broken off from
664 UCSD; and now CONNECT is very independent. CONNECT still wants to support
665 the university, but even more so, I think CONNECT wants to support technology in
666 San Diego. By technology, I mean life sciences, telecom, communications, and all the
667 other sciences, to make them into businesses. But CONNECT also wanted to see all
668 ships in the harbor rise together. So CONNECT was a "we're all in this together; let's
669 not be little competitive silos here and there." The DLA Piper law firm has had
670 offices in Palo Alto and San Francisco for the last 25 years or so, and that community
671 was much different. Up north was much more competitive among the law firms, the
672 accounting firms, other participants, and the companies up there.

673 But here in San Diego, the attitude was that one law firm would help out the other
674 law firm, and one accounting firm would help out the other CPA firms. We all were
675 willing to share. I remember one company Agouron, that later was acquired by

676 Pfizer. I did no legal work for Agouron, but its General Counsel called me up and
677 asked me for sample legal documents, which I gave him. There was just a lot more of
678 real community support, with everybody wanting to help everybody out. I think that
679 attitude is still very prevalent, maybe not as quite much as it was in the early years,
680 but there is that kind of DNA within the San Diego community to help everybody
681 out.

682 **CARUSO:** How does one create such a sense of community? There are two things I
683 think in there: What is it that CONNECT was actually doing? It's one thing to have a
684 body exist, but mere existence isn't going to create that community. Were they
685 holding events? If so, what were those events like? What were they doing to bring
686 people together? And do you have a sense, again from your perspective, of how they
687 were fostering, sort of tearing down of those traditional competitive barriers?

688 **BELL:** Well, I guess it's a lot of little needle pricks all around. It just all finally
689 becomes something big. But just to give one little story: I think I was giving a
690 program on university licensing and tech transfers from universities to companies
691 and I remember Bill Otterson standing up in the audience. He wasn't on the podium
692 at all, but standing up and saying, "Hey, the NIH has just come out with some
693 proposed regulations to prohibit conflict of interest." Bill had known that for one of
694 our clients at that time, La Jolla Cancer Research Foundation, which is now known
695 as Sanford-Burnham, that I had written a letter for one of their scientists to send to a
696 Congressman to say "don't prohibit conflict of interests, but rather manage conflict
697 of interests." And Bill said, "I want all you guys to send the same letter to your
698 Congressman – to urge that it is better to manage conflicts than to prohibit
699 conflicts." I must have gotten 30 different requests from companies or institutions or
700 scientists who were willing to send such a letter. We sent the letters, and NIH
701 ultimately adopted rules to say NIH will manage conflicts of interest, rather than to
702 prohibit conflicts. Such rules require that the conflict be identified, disclosed, not
703 misused.

704 I would say that at least half of every meeting that Bill Otterson would attend, he
705 would get up and say something to try to get the attendees to do something. That
706 might just be to "hey, be sure you go to this conference" or "be sure you support this
707 program," but often it would be "send in money because we're fighting this
708 proposition that is going to be on a ballot" or something like that. He was very
709 unabashed in saying what was going on in the community, state, or nation; and

710 urging people to take some action and rally the forces. Not to have it just be a one
711 company or one person saying it, but to have the message stated by multiple people.
712 So that – there was certainly that kind of outreach by Bill and CONNECT.

713 There were a lot of educational programs put on, such as scientific, business, finance,
714 and seminars. There was a SpringBoard program for a young entrepreneur or a
715 young company to present its business plan, to be screened by three people. For
716 example, I would screen it from a legal and business standpoint; and somebody else
717 would screen it from a scientific standpoint; and somebody else would screen it from
718 a product development and marketing standpoint. We would have read the
719 business plan, and then the person would come in and give a ten-minute oral spiel;
720 and we'd give constructive criticism, both on the plan itself, as well as this oral
721 presentation. A lot of people in the community volunteered to be on the panels for
722 that SpringBoard program. Most of those companies never went anywhere, but a few
723 of them succeeded and they said they got a lot of good feedback out of it.

724 CONNECT also put on programs by inviting the financial community, the
725 investment bankers or venture capital firms, to come in and spend a half a day and
726 have breakout sessions with companies, things like that. One thing that I really liked
727 that CONNECT does not do anymore because of our internet age, was an annual
728 directory booklet, with everybody's name in it and a page summary for each
729 company; but it would become out of date pretty quickly. I still keep half a dozen of
730 those annual directories around to look things up every now and then. Now it's all
731 online. So anyway, those are some of the things that I can remember that CONNECT
732 has done and been very well received.

733 **CARUSO:** Is there anything that you would like to talk about that we haven't? I
734 know you shared a lot of information. I wasn't sure if, during the interview, you were
735 thinking some things could be discussed more.

736 **BELL:** I guess one thing that I've thought of, as I was told I was going to be
737 interviewed, was how client matters kind of migrated from one client to the next.
738 Just to give a little summary of what I mean by that: I started doing work for the
739 Scripps Clinic and Research Foundation in the early '70s. When Miles Laboratory
740 offered to form a joint venture with Scripps, the executive for Miles Laboratory at
741 that time was a man by the name of Theo Heinrichs. I met Theo then and we had
742 some friendly battles. Theo grew up in Germany and he was even in Hitler's army

743 and stuff like that; but he and I would butt heads on things because I was on the
744 Scripps' side and he was on the Miles' side. We had a joint venture, so we are
745 supposed to be partners doing things. He became a very close friend later. Once he
746 retired as president of Miles, he became the lead investor for Hambrecht & Quist
747 Life Science Fund out of San Francisco. I sent Theo a three-page summary for a
748 concept for a company that became known as Telios, which ultimately became a
749 public company. Telios was a spin-off from La Jolla Cancer Research Foundation.
750 Theo liked the Telios technology and he had H&Q fund it. Theo later funded a
751 company in Ann Arbor by the name of Aastrom that I worked with for ten years or
752 so. Theo had H&Q fund a San Diego company by the name of Canji that
753 Schering-Plough ultimately purchased. So I merely mention those kinds of examples
754 where I worked with one person in one role, and then got involved with some of
755 these other companies.

756 As another example, the work I did for Scripps is the primary reason I started all the
757 work for the La Jolla Cancer Research Foundation, now named Sanford-Burnham
758 Medical Research Institute. Bill Fishman, who was at Tufts University, had come out
759 to Coronado for a conference on cancer. He was facing retirement at age 65 at Tufts;
760 and thought he'd like to keep doing research, so he called Scripps and said, "What
761 do I do to form a new research foundation like yours?" And they said, "Call Knox." So
762 from Boston, via telephone, we formed La Jolla Cancer Research Foundation; and
763 that has been very successful. That was more than 35 years ago; and I still do work
764 for them, now named Sanford-Burnham Medical Research Institute, and they've got
765 900 employees now. This is an example of how San Diego has been active in trying
766 to see new things grow and new organizations form. When Bill Fishman formed this
767 new entity, it was with the idea that Bill wanted to be close to UC San Diego, Salk,
768 and Scripps, just to have a lot of interactions. In fact, I helped Bill Fishman get some
769 rented facilities from Scripps down on Coast Boulevard when he first came out with
770 a trailer with a frozen ice box with biological specimens in it; and we unloaded it on
771 a weekend there.

772 When Ivor Royston formed the San Diego Cancer Research Center, later named the
773 Sidney Kimmel Cancer Center, I did all the legal work. Ivor wanted a new
774 organization that would combine basic research with clinical trials operations. He
775 was trying to form it to have a close affiliation with Sharp Hospital, where a lot of the

776 clinical trials could be done at Sharp. So again, this is an example of "connect"
777 multiple institutions that way.

778 Anyway, I just thought that was an interesting aspect, at least in my career, that I
779 think is emblematic of San Diego: people trying to cooperate with each other, to see
780 new organizations form, and try to make them succeed.

781 **CARUSO:** All right. Thank you very much.

782 **END INTERVIEW**

Recommended Citation:

Bell, Knox. Interview conducted by David Caruso, June 12, 2014.
The San Diego Technology Archive (SDTA), UC San Diego Library, La Jolla, CA.



The San Diego Technology Archive (SDTA), an initiative of the UC San Diego Library, documents the history, formation, and evolution of the companies that formed the San Diego region's high-tech cluster, beginning in 1965. The SDTA captures the vision, strategic thinking, and recollections of key technology and business founders, entrepreneurs, academics, venture capitalists, early employees, and service providers, many of whom figured prominently in the development of San Diego's dynamic technology cluster. As these individuals articulate and comment on their contributions, innovations, and entrepreneurial trajectories, a rich living history emerges about the extraordinarily synergistic academic and commercial collaborations that distinguish the San Diego technology community.