

UNIVERSITY OF CALIFORNIA, SAN DIEGO

25th ANNIVERSARY ORAL HISTORY PROJECT

Interview with Dr. Robert Hamburger
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Interviewer, Dr. Kathryn Ringrose

1 **RINGROSE:** I'm going to ask you first to talk about your personal background, both with the
2 Medical School and with David Bonner. Give me a little background about yourself and how you
3 happened to come to UCSD.

4 **HAMBURGER:** Well, after World War II, I went back to the University of North Carolina in
5 Chapel Hill, North Carolina to complete my degree. I switched majors from journalism to zoology
6 and chemistry. By then I was married—had been married over three years and we decided it
7 was time to have a child. So, by the time I went to Yale two years later we had a one-year-old
8 daughter. I graduated from Yale in 1951, and spent two years at the University of Rochester, in
9 Rochester, New York, in Pediatrics. Then I came back and did one more year at Yale at New
10 Haven Hospital in Pediatrics, and then went into practice in a little town called Milford, about ten
11 miles from New Haven—Milford, Connecticut. I was almost instantly too successful in practice,
12 so that I ended up working day and night, seven days a week, and was very much stressed
13 during that period, though I made a good deal of money rather rapidly and paid off the close to
14 \$19,000 in debt that I had accumulated during medical school and the three years of post-
15 graduate education.

16 Then I decided to carry out my long-standing plan to get back into academic medicine. But the
17 very success I had in clinical practice was my undoing. Nobody would take me. The feeling,
18 expressed by a senior pediatric professor, was why would you leave a successful practice—
19 both economically and intellectually—unless you were emotionally disturbed. I consulted a
20 psychiatrist friend of mine who assured me it was the professor who was emotionally disturbed,
21 and not me. Then I went around looking for somebody to sponsor a research training period,
22 and, very fortunately, encountered David Bonner—David M. Bonner, who was at that time a full
23 professor—having come from the Botany Department to the Microbiology Department—at the
24 Yale School of Medicine. David asked me, I remember, one critical question—did I want to
25 come in and work with him in his laboratory in order to get a Ph.D. or not. And I said I really
26 didn't care much about the degree so much as learning how to do real science in preparation for
27 an academic career in medicine. Fortunately, that turned out to be the right answer. Had I said I
28 wanted a Ph.D. he would not have taken me on and sponsored me. He had a very strong
29 feeling that M.D.s who wanted Ph.D.s just wanted to decorate themselves, and really didn't
30 want to do science. And he had no use for that attitude.

31 He sponsored me and I applied for an NIH grant and received it, much to the distress of the
32 dean of the Yale Medical School, who told me that he would approve the application, but if I got
33 the grant it was going to cause him a lot of trouble, since the first-year salary for this fellowship
34 was \$3,000 more than an assistant professor was at that time receiving. I think he was very glad
35 to see me go the following year when Dave Bonner accepted the chairmanship out here. Roger

36 Revelle had had him out two or three times. At the time my grant came through he actually was
37 negotiating with UCSD, except nobody at Yale knew that. I didn't know that.

38 Six months after I began working with him, we all moved to "La Ja-la"—which is what we all
39 used to call La Jolla. There were Stanley Mills, Marko Zalakar, Herb Schulman and Jon Singer
40 who came out with us at the time—it was a small group. I think there were four or five faculty,
41 several graduate students and two or three postdocs. I was one of those postdocs. I had a
42 three-year NINDB Fellowship. The fourth year that I was in the UCSD Biology Department I
43 received a visiting associate professorship, using funds—this was 1963/64—using funds that
44 had recently been assigned to the School of Medicine. So, in fact, my number, my professorship
45 number, which is 333000, was the first appointment in the new School of Medicine, even though
46 it was as a visiting associate professor of biology.

47 **RINGROSE:** But when you came out with Dave Bonner, you already knew that there would be
48 a Medical School?

49 **HAMBURGER:** Au contraire. Absolutely not. In fact, when we came out the design called for
50 a School of Science and Engineering. That was the name of it at that time. The argument was
51 over whether it was going to be the University of California, La Jolla, or University of California,
52 San Diego—School of Science and Engineering. It was to be a mini or equal to CalTech, but a
53 state-run institution, and there was no talk of schools, law school, med school, dental school—
54 none of that. All of the discussion was concerned with just science or full arts and science at the
55 moment we arrived. Dave and I got here in December of '60; the rest of the group dribbled in
56 over the next three to six months, and so by July 1 of '61 his little formative department was up
57 and running. At that time, it was located down in Sverdrup Hall, Scripps Institution of
58 Oceanography.

59 **RINGROSE:** So, you were then looking forward to a long-term career as a researcher?

60 **HAMBURGER:** Yes. Yes and no. I was certainly looking to a long-term career as a
61 researcher, but not in a biology department. My dream was that I would make my reputation in
62 the Bonner Biology Department and be recruited to some outstanding Pediatric Department in
63 some medical school elsewhere. In fact, when I went to La Jolla, that same pediatric professor
64 at Yale told me that I would disappear. He said it was a foolish thing to do, and at first, he
65 advised me not to do it, not to come back into science at all. Then he advised me, once I got the
66 grant, to keep the grant at Yale, and transfer it to the Pediatric Department. I found that to be an
67 almost unethical suggestion, and when I told him that I didn't think it was a sound bit of advice,
68 he told me that I would go to La Jolla and never be heard from again.

69 **RINGROSE:** I assume Dave Bonner was also being given that same advice at Yale.

70 **HAMBURGER:** I think so. Everybody said that La Jolla was "lotus land", and that you would
71 go out there and no work would be accomplished. Everybody lies around on the beach. In fact,
72 as Martin Kamen said a couple of years later, this place was such a good place to work,
73 because it had a zero energy of activation. He meant that in physical/chemical terms, it didn't

74 take energy to get the reaction going. You get up in the morning and know that you can get to
75 work because you won't have to shovel any snow, there will be no violent weather—nothing to
76 impede work. So, if you really came here to work, you could get more done in less time than any
77 place on earth. The sun shone all the time, so if you were looking to take a little time off, you
78 took it off when the work permitted, not when the sun shone. You knew it would shine next
79 Wednesday when you wanted to run up and go skiing. We used to have a joke in those days—
80 we were getting the lab up and running and we had a lot of spare time because we couldn't do
81 our research—and we used to say that we kept a fishing rod, water skis, and a pair of snow skis
82 in the trunk, and you could get in the car and then decide which of those things you were going
83 to do at almost any time of the year. And that's practically true.

84 **RINGROSE:** So, talk about David Bonner a bit. You know it's really sad that we lost him
85 without ever having this kind of a discussion. So, we have to do this second hand. Talk about
86 his career, and what it was like for him coming here.

87 **HAMBURGER:** I tried to get Jim Arnold to do that on a tape machine similar to this one just
88 recently, and I noticed that the two of us who knew him very well, and worked with him over
89 many years, kept—we'd make a statement about him, and then go on to something else. So, it
90 must still be painful for those of us who loved him and appreciated him to—it's almost
91 impossible to re-create the man. He was really one of a kind! I can't look around the campus
92 now and say "he was very much like so and so." I could do that with most other people here.
93 David was absolutely unique. Things pop into my mind. For example, back in New Haven there
94 was a group of them sitting around the table, and they realized that he was the only non-Jew at
95 the table, so somebody promptly stuck his finger with a needle, and stuck Dave's finger, and
96 touched the blood spots together, and convinced David that that was some ancient Jewish
97 symbolism that made him an honorary Jew! He told people that he was an honorary Jew for
98 years afterwards, until somebody had the good sense to tell him that it was nonsense, and that
99 those guys had just put him on. But in fact, he had a lot of the characteristics of an Eastern Jew,
100 when, in fact, he was a WASP in every sense of that term. He was a Protestant who grew up in
101 Salt Lake City with a father who was professor of chemistry at the university there—

102 **RINGROSE:** Brigham Young?

103 **HAMBURGER:** Yes.

104 **RINGROSE:** But he was not a Mormon.

105 **HAMBURGER:** Right. That is a very important thing, because he was a minority kid. And he
106 grew up like a minority kid as a "gentile." He thought gentile was some kind of dirty word when
107 he was a youngster because he was called that all the time. He knew that he was different. His
108 whole family knew that they were different, and he had a lot of the qualities and mystique of
109 somebody who grew up as a minority person. That's why he was so comfortable with other
110 minorities. He was always surrounded by Japanese, and Jews, and in those days, those were
111 really minorities in Ivy League academic institutions. The med schools in my early years had a
112 very strict quota for Jews, a very strict quota for Orientals and so on. Blacks—there was one per

113 class at Yale. Everybody acknowledged that that was by rule, not by accident. The man had that
114 quality. The other quality that was very salient was the hayseed. He played the hayseed at Yale.
115 It worked like a charm there because everybody appeared to be so suave and so sophisticated.
116 You could practically see the straw dangling from his mouth as he played naive, innocent,
117 always saying, "Is that so?" It was absolute role playing. The man was world traveled, extremely
118 sophisticated, very bright. But it worked for him, and he used it all the time. He used it out here,
119 but with less success, because there were plenty of hayseeds around who were also bright, and
120 here he used the Peck's Bad Boy role more. He used foul language—a lot of it and loved to see
121 your face when he did it. Not that they were such strong words, but they were words that didn't
122 fit at the moment. They were inappropriate words. Piss and vinegar were his favorites. He used
123 them all the time.

124 **RINGROSE:** That was before it got fashionable for academics, as it did in the mid-sixties.

125 **HAMBURGER:** Oh, yes, it was way before the free speech movement and all the rest of that.
126 And he—in fact, I think that he probably calmed it down as it became fashionable. And then he
127 was gone. By then he had died. I think there's another characteristic of his that I should
128 mention. That is, he was daring, as was Roger Revelle. Roger Revelle looks like a giant
129 conservative, but he is anything but that. He's a giant physically, but he's really a giant mentally,
130 and he was extremely daring. He was a real risk taker, although he would have you believe that
131 he was terribly conservative. One of the risks was Dave Bonner.

132 **RINGROSE:** In this regard he made the comment to me, "We were looking for talent. Not
133 established people, but talent. Raw talent."

134 **HAMBURGER:** But how about a talent that has a death sword hanging over his head.

135 **RINGROSE:** Did he know that?

136 **HAMBURGER:** Oh, he surely did. And he had a big problem with insurance—transferring
137 Dave's insurance program which he had taken out before becoming ill.

138 **RINGROSE:** So, he was actually ill when he came here.

139 **HAMBURGER:** Oh, he was ill for several years before that. He had had several surgeries,
140 and some radiation therapy—for Hodgkin's. You know it was Hodgkin's Disease, a type of
141 cancer. When we came out here one of the problems, I had was finding good medical care for
142 him. There were a lot of people with fine names and reputations that were, in my view, not
143 deserved. And so, we had to dig around. I found a young internist no one knew but who knew
144 his medicine, and he watched Dave.

145 Being a pediatrician, I thought it was inappropriate for me to be his doctor, though I took care of
146 his two kids in my spare time. In fact, he told people that that's why he brought me out here.
147 When they'd ask him, "What are you doing with a doctor in your department?" he would say,
148 "Well, I needed a 'croaker' for my kids, so I brought him with me."

149 He later took on Don Pious who was also a pediatrician at Yale. He didn't bring him with him, he
150 took him on later. Don, by coincidence had been a house-officer in pediatrics at Yale when
151 Dave's second son was born who had mild cerebral palsy. It was probably an injury that
152 occurred in the nursery as a result of oxygen deprivation, the baby had a very bad start. That
153 baby is now twenty years old, and of course is doing very well. He's not retarded, although he's
154 still physically handicapped. The older boy is a beautiful kid, and bright, attractive, hard-working.
155 He's into solar energy or something.

156 Miriam is—Miriam is David's wife. Miriam was a "Jack Mormon." A "Jack Mormon" is one who
157 doesn't practice the religion, an ostracized person who they're constantly trying to get back into
158 the fold. She was a very interesting woman. She looked exactly like the woman in—what is that
159 famous portrait—

160 **RINGROSE:** The Andrew Wyeth?

161 **HAMBURGER:** The portrait of the farm couple. She looked like that woman. Absolutely
162 looked like that woman.

163 **RINGROSE:** Well, no wonder he tried to look like a hayseed!

164 **HAMBURGER:** She was anything but that either. She only looked like that. She was, besides
165 being an alcoholic, a controlled alcoholic all her younger years, and an uncontrolled alcoholic in
166 later years, she herself was a very interesting person in her own right. After Dave died, she
167 became one of Dave's ex-student's lab-techs, and worked very hard and very successfully at
168 Stanford for many years. In fact, she just retired this past year or two. She is a woman I love
169 dearly, despite her foibles or weaknesses or whatever. And for a woman who "hated children",
170 she was a very devoted mother. She said she hated children, but she took extremely good care
171 of her children. [Miriam Bonner died Nov. 1, 1984.]

172 **RINGROSE:** So, when Roger Revelle says he was looking for talent, what are the qualities in
173 Bonner that you think attracted him, other than obviously a very bright man, good in his field?
174 What about creativity? What about his ideas about education? Had he been involved in teaching
175 at Yale?

176 **HAMBURGER:** No, the man actually, he was a maverick at Yale, and a troublemaker. He
177 was full of ideas and excitement and was totally frustrated by the ultra-conservatism of most
178 departments at Yale. I've often said that if I'd stayed there, I would still be an assistant
179 professor, or I would have long since quit. I can't stand those kinds of constraints—"We don't do
180 it that way," was a favorite phrase there.

181 What Roger saw in David, I think, was a maverick, a forceful leader, a dreamer, and a
182 successful doer. The man was able to generate enormous grants—quite enormous for those
183 days. He doubled the size of Bonner Hall when he had it built, with NIH money. California put up
184 one half, and NIH doubled it. It was because he was so respected, and many people felt that he
185 was cheated out of a third of a Nobel Prize because [George] Beadle, [Edward] Tatum and
186 Bonner were the authors of the paper that was cited when Beadle and Tatum won the Nobel

187 Prize in biology—in genetics. The reason they say that David didn't get it was that he was a
188 graduate student at the time. He probably did most of the work. So, here you have what was
189 then a young man with a very limited life span in front of him, with energy and drive that just
190 didn't let up, who felt that it was time to do it NOW, because he might not be here next year.

191 **RINGROSE:** Now, he must have been influential in selecting other faculty, along with Roger.

192 **HAMBURGER:** Very much so.

193 **RINGROSE:** Talk about some of those people and how those connections were made, what
194 you know about it.

195 **HAMBURGER:** I know very little about it. All I know is that he served, as I did later, on every
196 committee for selection of faculty, even though these faculty had nothing to do with his own
197 field. The people who went before him did the same thing. Jim Arnold was telling me the other
198 night that they selected physicists or engineers or oceanographers with great aplomb, because
199 there was nobody else to make the selection. They often got advice from somebody in the field
200 from another campus. But selections were made by the people who were here, and David, I
201 know, was on many, many committees in the selection of senior faculty in literature, art, and
202 music, and he put his mark on the kinds of people who came here, because they had to get by
203 him! Anybody that wasn't put off by David was special, because David was very off-putting
204 when you first met him. He was brusque and would often say rude and un-nice things about
205 your field or yourself or something else or put you down if you were the least bit pompous,
206 stuffy, or formal. That was true of anybody who came, like Roy Harvey Pearce, who was all
207 those things. Roy Harvey Pearce was pompous, for a young man in those days. He was self-
208 assured because he had just written something important, and the world was telling him that. He
209 might deign to come out here and build a Department of Literature, but if he did it was going to
210 be the best damned department—well, that was Dave's kind of man, you see. Dave taunted him
211 unmercifully, and Roy Harvey loved it! It was like a challenge to him. You would have thought
212 that Roy Harvey would have got his nose all out of joint, and in fact it was just the opposite. Roy
213 enjoyed a biologist who gave a damn about literature.

214 **RINGROSE:** Yes, he said that.

215 **HAMBURGER:** Did he? Really? Well, that was my view of it. And Roy did the same thing. He
216 told me on the phone the other day that he—the only thing he did was help to select medical
217 school faculty on several occasions. Mentioning a name, which I will not mention, he said he
218 may have made a dreadful mistake! We were not self-conscious about making mistakes in other
219 fields. It was very amusing. Today that's unheard of.

220 **RINGROSE:** Well, it sounds as though you're going to get a certain core faculty type. It's going
221 to be—

222 **HAMBURGER:** But they don't look it. I mean, if you look at the early people—Jim Arnold,
223 Keith Brueckner, Francis Haxo and Andy Benson down in Scripps—I'm talking about people
224 with whom Dave and I interacted in those early years: Roy Harvey Pearce, and ...

225 **RINGROSE:** John Stewart—

226 **HAMBURGER:** Yes, and Avrum Stroll, and Dick Popkin—I think the only statement I would
227 dare to make that would be applicable to most of them is that they were odd-balls. They were all
228 slight misfits in the academic world. But they varied enormously in temperament and personality
229 and appearance, and in every aspect so that no one would look at that group and say, "Oh,
230 they're all out of the same cookie cutter mold", like you might see at Harvard, or Yale, where
231 they tend to start to look alike after a while; they dress, think and act so similarly.

232 **RINGROSE:** Definitely a club.

233 **HAMBURGER:** Yes, and there was none of it here. A bunch of random moving characters.

234 **RINGROSE:** Could you argue that if you go out and look at the very best people at the very
235 best schools in any field that possibly the ones that are going to be willing to move are the ones
236 who are oddballs and don't fit into conventional institutions?

237 **HAMBURGER:** Certainly, and particularly to move to Southern California, the lotus-land on
238 the border of Mexico, an area dominated by the Navy. Who on earth, in his right mind, would
239 come to such a place? What kind of place is that to raise children, particularly if you have girls, a
240 Navy town? I mean, those are the kinds of remarks we heard all the time when we were
241 recruiting.

242 **RINGROSE:** One of the interesting comments Roger Revelle made to me was, "You know,
243 despite what people say, we didn't buy our faculty with big salaries." I think a lot of people
244 assume that these major appointments were made because we knew it was hard to get people
245 here, and so they were just offered the moon.

246 **HAMBURGER:** They were offered the moon—but not money! The moon was—FREEDOM. In
247 those days—and that also had to do with money—and I said this to you the other day—you just
248 had to have a good idea, and it was supported in this institution, in this state. Nobody quibbled
249 with you when you said, "Well, this great idea is going to cost \$40,000 this coming year to try it
250 out." And they said, "Are you sure that's going to be enough."

251 **RINGROSE:** Or "Would it pay for itself?"

252 **HAMBURGER:** Nobody asked that. And nobody asked was it worth it? Nobody asked, "How
253 much are you gonna ask me for next year if I give you the forty this year?"

254 **RINGROSE:** "It's not your turn."

255 **HAMBURGER:** No—it's so different that people who weren't here just don't believe it when I
256 tell them. We asked for a medical library building that would house—and I can't remember the
257 number anymore, I used to know the number, let us say 1,285,000 volumes, or some huge
258 number like that, for the biomedical branch of the library—not for the main library. And they said
259 to us, "Now, that would be fine for the biomed library, but where are you going to store the rest

260 of your collection?" And then they gave us \$275,000 "seed money"—four years before the med
261 school was due to open, so that the librarian, the biomedical librarian, who was already
262 appointed, could start to build the collection that was going to be necessary, in place, on the day
263 the first student arrived.

264 **RINGROSE:** That's incredibly sensible for the State of California.

265 **HAMBURGER:** As a result, when I was recruiting, I would say to somebody, an internist for
266 example in the School of Medicine, I would say, "Let's see, what's your specialty? Internal
267 medicine, nephrology—what are the two journals that you use the most?" And they would name
268 the two journals, and I would say, "Well, you realize the school is planning to open the year after
269 next. But if you come here next year, I can promise you that we will have that journal back to
270 day one. In fact, let me just go check and see what we've got." And I'd go to our little—in those
271 days, it wasn't computerized, it would be a typewritten print-out of what we had in our reserves,
272 and sure enough, it was there, and back to day one. Back to 1884 when they started the damn
273 thing, or 1892, when the first volume was issued, often beautifully bound, from somebody's
274 great collection. This librarian went all over the world either by phone or letter or physically, and
275 bought up collections that were just stunning, just outstanding. And this was his aim. Any journal
276 that we had listed—and the original list was over 4,000 journals—it wasn't sufficient just to get
277 started, we would subscribe, it was off and running, and then he would buy the back issues all
278 the way to its origins. He was enormously successful. They appreciated what he did, and they
279 kept pouring the money in. As quick as he spent it, they filled the kitty.

280 **RINGROSE:** You told me earlier that you didn't officially sit on the medical school advisory
281 committee, but you were involved with the early committee from the beginning.

282 **HAMBURGER:** Well, I was a Fellow, being paid by NINDB (NIH) funds. I could not formally
283 serve on a committee. I could not officially teach in the university. In those days there were very
284 strict rules about what you could do if you were on Federal money. And so, what they did, since
285 I was the only M.D. on the campus at the time, was invite me to sit in whenever I could. And of
286 course, I sat next to Dave, and mostly whispered in his ear. I rarely spoke out, partly because I
287 was modest, and fearful of saying something foolish in front of these big shots, and also
288 because I really was unsure of what they were getting at, and where they were going. In those
289 days, the discussion wasn't instantly focused on our School of Medicine. It was—well, what else
290 could we do? Should we have a Law School to start with? It would be much less expensive. Or
291 should we start with a two-year medical school that we could literally build out of the Biology
292 Department, and not have to have a bunch of clinicians around. You might have to have a few
293 M.D.s, but—

294 **RINGROSE:** I've seen reference to the two-year medical school plan. Would you then ship
295 your students elsewhere for their clinical work? Is that how that works?

296 **HAMBURGER:** Yes. Chapel Hill, where I had been an undergraduate, had a two-year
297 medical school. I was admitted to it before I got accepted to Yale. They—any established two-
298 year medical school had a "placement" arrangement, and they would place so many at Duke,

299 and so many here, and so many there, and they knew where they were going. Any student who
300 did well at Chapel Hill was sure he would go on to his third and fourth year in some fine medical
301 school. The arrangement that was thought about here would have done that—placed them at
302 UCLA or San Francisco—or, in fact, some perhaps at Stanford or USC, private schools as well.
303 But that would have been only for students who could afford that switch. The differential wasn't
304 so enormous in those days. Today it costs a fortune to go to a private medical school.

305 **RINGROSE:** What were the objections to that?

306 **HAMBURGER:** Many. First of all, what was wanted here by the San Diego community was a
307 medical school, and they were thinking clinician. They were thinking physicians. They weren't
308 worrying about the pre-clinical sciences. Their concern was to have a four-year medical school
309 that churned out doctors, that had interns, residents, whole house staffs, and all kinds of super
310 specialists. That's what raises the level of medicine in any community.

311 **RINGROSE:** Like Palo Alto.

312 **HAMBURGER:** Exactly. The community had no interest in a two-year school, and very
313 quickly we at UCSD had no interest in a two-year school. In fact, later this place objected very
314 strenuously to the proposal that Riverside should have a two-year school which would feed us
315 once we had established our four-year school. We didn't want any-body else's students; this
316 was a very proud place!

317 **RINGROSE:** This is a very elitist place! That's one of the themes that carries through.

318 **HAMBURGER:** Intellectually elitist. No other kind of elitist.

319 **RINGROSE:** I don't mean that in a pejorative way.

320 **HAMBURGER:** We really felt very strongly that nobody was going to prepare our students the
321 way we wanted to prepare them for entry into medicine. We wanted them to have a strong
322 science orientation to sustain them once they got seduced into the clinical areas, which are
323 much more immediately gratifying than science—science is much harder to do—it's harder to
324 keep yourself motivated, to get feedback and reward. The practice of medicine is very rapidly
325 rewarding. You either guessed wrong or right and you know very quickly. The patient is either
326 appreciative or does not return.

327 **RINGROSE:** You're going to get strokes.

328 **HAMBURGER:** Exactly. You don't get them very often in science—the "eureka" thing
329 happens so infrequently that it's a joke. So, we were bound and determined that nobody was
330 going to train our students prior to getting them into the clinical world, and we were not going to
331 get these superb students and send them somewhere else. They were going to stay right here if
332 we did a med school. There was talk of dental schools, nursing schools, world planning schools,
333 engineering schools—an engineering school was supposed to start very early. It never
334 happened. It wasn't until the present chancellor, twenty years later, that anything happened that

335 was focused on engineering, although we did have an avant-garde Aerospace Engineering
336 Department.

337 **RINGROSE:** Wasn't engineering pretty depressed for a while?

338 **HAMBURGER:** In fact, they were training them to operate computers and other things
339 because they were all being educated into some other field, and now they're talking again about
340 needing engineers.

341 **RINGROSE:** It's only been the last few years that there's been a market for engineers.

342 **HAMBURGER:** Well, the trouble with a really effective capitalist society is that it inflicts that
343 kind of ...

344 **RINGROSE:** Boom and bust.

345 **HAMBURGER:** —boom and bust attitude on something that does not have a one year turn
346 around, but a ten or fifteen year turn around. It takes ten or fifteen years to change a direction
347 for producing scientists or engineers or doctors, or whatever. They suddenly decided in the past
348 two years that we have over-produced physicians, and that it is causing an increasing problem
349 in the United States. To cut back is just terribly painful. Very slow. We've gone from 128
350 students in the entering class to 125 to 122, in two years. I mean, that's no change at all! And
351 that isn't going to be reflected until four years down the pike. The ones we took in three years
352 ago are now in their junior year, and there are 128 of them. When we started, we started with
353 48. Actually, we ended up with 47 freshmen medical students and it was a marvelous size class.
354 If we've really over-produced, let's go back to 50 students in a class. I thought the dean would
355 have a fit when I recently said that out loud, because the consequence would be total
356 destruction of this school of medicine. Everything is tied to the number of students, faculty
357 positions, support, money, size of the buildings, research labs—everything, so that there's no
358 way unless you have a daring and sophisticated statewide leadership, which we do not have at
359 the moment, there's no practical way that we can come rapidly down to something reasonable
360 for a few years, and then see whether we've hit right on the mark. We don't want to
361 underproduce. We keep going up and down in our estimates of future needs, extreme swings
362 and shifts, and then later try to replace what's missing. Right now, I believe, we are failing to
363 produce adequate numbers of academicians. My prediction is that five to ten years from now
364 they'll suddenly realize that there are no bright young people prepared to step into major
365 academic positions. They just will not be there!

366 **RINGROSE:** The impression I get, and tell me if I'm wrong about this, is that it isn't that there's
367 lack of work for doctors, but there's a lack of lucrative practices and doctors complete their
368 training with so much debt on their shoulders now that they have to go into a lucrative practice.
369 They can't go into academic medicine, and they can't go out to poor rural communities to
370 practice, even if they want to.

371 **HAMBURGER:** I think that's about as favorable a way as you could state it regarding
372 physicians. There's a lot of truth in the way you just stated it. There are also other seductions.

373 For example, their classmates—the people who graduated from college with them—have had
374 seven, eight, ten years out in the real world, and the successful ones are now making six-digit
375 incomes, and the resident doctors are just getting into the \$20-25,000 bracket, and they are
376 shocked, and hurt, and angry, and say, "I'm going to make mine now."

377 Well, there's no way you can make it now in a decent, honest, practice of medicine. What you
378 do is slowly build a really nice practice, and a really handsome income. But if you've got to
379 "make it now", you're going to pervert the practice of medicine to an economic business
380 practice. And that is contributing to what you just listed. Some of them don't have all that debt,
381 but all of them look around and see what they've sacrificed economically to become physicians,
382 and they are bound and determined they're going to get it back. That hurts, because you see
383 these idealistic young people come in who are going to do marvelous things for society, and
384 these greedy little critters come out seven years later. It is seven years, because most of them
385 do four years of med school and then do at least two, three, or five years of additional training
386 after medical school—so it's a long postponement of economic gratification and social
387 gratification. There are ways that this could be corrected without perturbing the system, without
388 making major changes. You wouldn't even have to "socialize" the system. But there are things
389 you could do—for example, you could make more equitable the pay scales of academics—
390 young academics—us old academics do quite well. You could subsidize (without debt) medical
391 education much more than is being done now, and the payback could be two to five years,
392 depending on how much subsidization was required practicing in "less desirable" communities.

393 **RINGROSE:** That has always struck me as a sensible way of dealing with it.

394 **HAMBURGER:** Get them out to the boondocks, into the depressed areas of the United
395 States, and have them provide a social payback for society having subsidized them, so they
396 don't come out in debt—they come out even!

397 **RINGROSE:** We've long done that for doctors going to work for the military, haven't we?

398 **HAMBURGER:** The military, and we have a very nice public health service that provides care
399 for American Indians and a few depressed areas, but that program has never been properly
400 supported and appreciated, and it's made to be some kind of punishment for losers. You know,
401 the "guys who can't make it any other way," and so it has not got the prestige and sense of
402 accomplishment it should have.

403 **RINGROSE:** Now, from what you're telling me, it sounds as though most of your students now
404 are aiming for clinical practice.

405 **HAMBURGER:** I used to say, and I think the numbers are still approximately accurate, that if
406 you design and devote your School of Medicine to turning out academicians, you will probably
407 turn out 15% of your graduates who ultimately end up in academic medicine. If you ignore that
408 aspect of your educational program, devote nothing to research education, just run a good
409 standard medical school, about five or six percent of your graduates will end up in academic
410 medicine. So, the enormous investment that you have to make to do it our way, which is to have

411 a very strong research orientation, takes time, takes money, takes space. It takes a bigger
412 faculty, because we don't have enough clinicians to do the clinical care that's necessary to run a
413 med school. All of that for a five to ten percent difference. And right now, the difference is
414 probably less than 10% between a Loma Linda or a Creighton—I'm picking the most "clinical"
415 medical schools—and UCSD. I'm comparing the bottom of the Class A medical schools, to
416 ourselves and the difference in every aspect is enormous, and yet our product is not that
417 enormously different!

418 **RINGROSE:** I see what you're saying. Now when this early group that met and talked about
419 the future of the university—Roger Revelle, and Jim Arnold, Keith Brueckner, David Bonner,
420 and you talked about a medical school, did you have this perception that you could set up a
421 research-oriented medical school, and that even so, 80-85% of the students would end up in
422 clinical practice? Or were you looking at something that would virtually exclusively turn out
423 researchers—

424 **HAMBURGER:** That last statement was the naive expectation of a lot of administrators and
425 clinicians. That is, that the design that was foisted on this school, "foisted on" by the chemists,
426 the biologists, sociologists, the other people who were into the planning, that that design was
427 meant to turn out scientists, and would therefore turn out very few clinicians. That was, as I said,
428 a naive view, because the sophisticated educators, such as Sherm Mellenkoff, who later chaired
429 the formative Advisory Committee of the Medical School, knew perfectly well what the numbers
430 were, and so he wasn't the least bit concerned that even if we went this novel route, this wild
431 new design that was being planned, that that would result in changing the percentages very
432 much. It might yield a few more basic scientists out of each class, which wouldn't have been
433 bad, because most of the basic scientists in those days were Ph.D.s, and there were a lot of
434 people who felt that a few more M.D.s in the basic sciences would make for a better med
435 school. It would have been very good modeling, a good image for the students coming through
436 to see that an M.D. can do good science, too! He doesn't have to be a Ph.D.

437 On the other hand, the main reason for turning out M.D.s is so that they can practice medicine;
438 but at a continually high level— The decay rate of current knowledge in medicine is very high.
439 That was the main reason, by the way, the real reason, which you never hear about. But that
440 planning committee was mindful of the problem of knowledge decay because I personally
441 reminded them of the differences between the students who graduated from the high science
442 medical schools such as Hopkins, Harvard, Yale, Columbia, Penn, and Chicago—to name six,
443 and maybe a few more, and the graduates of less science oriented medical schools. The
444 graduates of high science schools; fifteen years later, were still struggling to keep abreast,
445 reading the literature. The graduates of six other less science oriented medical schools, which I
446 will not name, five to ten years out of medical school, were medically completely out of date!
447 The rate of change of medical knowledge following World War II has been and is enormous!

[END OF PART ONE, BEGIN PART TWO]

448 **RINGROSE:** I want to catch the tail end of that discussion. You were talking about the fact that
449 doctors who have attended really top research oriented medical schools—

450 **HAMBURGER:** Have a slower decay rate.

451 **RINGROSE:** Right, have a slower decay rate. They seem to be oriented toward keep-ing up
452 on the literature and keeping track of their fields. I think that's a very interesting point.

453 **HAMBURGER:** Because all their M.D. scientist models in the med school had to do that to
454 stay on top. To be at Columbia and get promoted at Columbia you were modeling for your
455 medical students a way of life that made you a scholar all your life. There are two ways that a
456 doctor can perform. He can go out, work himself to death, make a fortune, go play golf, and take
457 lots of vacations or holidays because he's exhausted all the time, because he's working so hard,
458 because he's making so much money. Or he can be a little more moderate in his work effort,
459 enjoy a little less income, and have a little more time to read—even if it's just before he goes to
460 bed at night. At least one or two of his trips every year are for CME, that's continuing medical
461 education, rather than just going to paradise and lounging on the beach. It's a difference in
462 attitude. You can pick up your CME and come to San Diego if you work in Chicago and combine
463 mind stimulation and updating with a nice vacation for the fam-ily. So, it's really a selection
464 process and an education process that you plant during medical school that may last for a very
465 long time.

466 **RINGROSE:** Now, am I right that there were people in the community and in the legislature
467 and in the upper levels of the administration that somehow developed the idea that this medical
468 school was not going to be committed to developing clinicians? It sounds like you had a serious
469 communication problem.

470 **HAMBURGER:** Yes, we did. You've hit the exact, correct word, too, because in fact, if they
471 had understood this, they would have recognized that it was not going to be that much more
472 expensive. A little more, yes, although we repeatedly told them it was going to cost the same.
473 But the truth is it would have cost a bit more. If we had communicated better and educated
474 better and had better lines to the right people, we would have done better in our final design.
475 Our result is, as you see, fractured. We did not end up with our medical school fully on the
476 campus. It's a split campus. It's the thing that all of our advisors told us was the worst possibility.
477 It was even better, they said, to go fully downtown, which was anathema to this campus—put
478 the whole med school downtown, rather than split it. That, they said, was the worst thing you
479 could do, and we ended up with that, thinking that it was just temporary. And it's now over
480 twenty years of "temporary."

481 The fact is that both the community physicians, community leaders, and the legislature, and
482 finally the Regents, came to believe that we were trying to build a gold-plated research institute
483 instead of a medical school, and that we were unmindful of what we had been told we must
484 do—which is to turn out clinicians. They were incorrect. We were very mindful of that. The
485 difference, as I stated, was that we would turn out better clinicians using our model than using
486 the one that was being suggested—which was to put the med school downtown next to the
487 County Hospital and teach doctors to be doctors. I call that bricklaying, and I usually use the
488 simile of laying bricks in the time of the Pharaohs—they laid bricks superbly. Those pyramids
489 are still standing, and when they build a structure today with stone bricks or clay bricks, they

490 build them exactly the same way they did three thousand years ago. We feel that if you have
491 good, highly competent clinicians teaching medical students, that you have that same
492 phenomenon. We know how to do it, and we're going to teach you how to do it. We are not
493 teaching you how to innovate, how to think for yourself, how to come up with something new
494 and better. And so ultimately you end up with a downhill course, because if you don't make
495 progress, you are falling back. And I think that human health and welfare is too important to be
496 left to bricklayers or to the bricklaying physicians, who want to do it the way daddy did it, or
497 grandpa did it.

498 **RINGROSE:** Well, they also want to do it in a safe way, and in a way that won't get you in
499 trouble with the insurance carrier.

500 **HAMBURGER:** Yes, just the way we always did it. No progress is made that way. Or, I
501 shouldn't say no, but very little. Sometimes they luck into something new despite themselves.
502 But mostly you have to be after something. You have to see a way to improve what you're doing
503 in order to do what we're doing now with genetics, to do what we're doing with transplants. You
504 know, there's enormous progress in every area. I just picked two because they're in my own
505 field, but there are a hundred areas—chemistry is just superbly sophisticated compared to what
506 I was taught in medical school. So, in half a lifetime, the field of medicine has just burst wide
507 open with new discoveries.

508 **RINGROSE:** So, do you think that people like Revelle were aware that they were running into
509 this communications problem?

510 **HAMBURGER:** Very much so. No, I don't think they recognized it as communication. I think—
511 to quote Dave—they thought they were running into stupidity, conservatism, political payoffs,
512 and that sort of thing. They really didn't recognize that they weren't getting through. In fact, there
513 was Bob Tschirgi—I perhaps don't agree with anything Bob has said in terms of medical
514 planning—he and I disagreed on almost everything—but one thing we did agree on was that
515 Dave Bonner was being totally misunderstood. He said that repeatedly. In fact, Tschirgi used to
516 say that if he could just keep Dave Bonner from speaking, things would go better. That may
517 have been true, but they wouldn't have gone right.

518 **RINGROSE:** But the UCSD group never really made any effort to educate their audience?

519 **HAMBURGER:** Well, they thought they were doing that, but it was one of those problems
520 where you don't realize that they're not understanding. If you're so bright, how come you don't
521 understand what I'm trying to tell you? And not only that, but most of them being scientists were
522 saying, "And I've got data! I'm not just making this up. I have data, convincing data that says this
523 is the right way to do it, and the old way is not."

524 On top of that, we were trying to sell a novel idea, and that's very difficult, because there's no
525 prior data for a truly novel idea. We had a truly novel idea, and that's the thing that I'm going to
526 focus on in my mini symposium on the first of November. I am going to try to keep pushing for
527 serious discussion of this novel idea. I want to ask the past president, Clark Kerr, "What did you

528 think of that? Was that what was so off-putting? Is that why you were so nervous about us? Was
529 it really just pure economics?" I'm going to ask those kinds of questions of Clark Kerr, of Roger
530 Revelle, of John Galbraith, and Herb York—all of whom were leaders at that time trying to get
531 us what we wanted. They really were on our side. And the question is, were they frightened by
532 the novelty? Or was it the Regents, the legislature or the politicians who prevented our total
533 success?

534 The novelty was, as I told you the other day, to have no departments of basic sciences. All
535 medical schools have six departments of basic science. We have one. We have pathology,
536 which is really a fundamental med school department—not a true basic science. It's the bridge
537 department. It's the one that literally has one foot in each camp of science and clinical medicine.
538 In fact, most pathology departments have two branches. One, the first two years, and one that's
539 often called "surgical pathology" or "clinical pathology", runs the laboratories for the hospital, the
540 path services for the surgeons. It's in the hospital, and yet at the same moment it's teaching
541 tissue dissection and tissue analysis, usually in the second year, in most conventional medical
542 schools, and it takes over from anatomy in most med schools. But we have no anatomy, no
543 physiology, no pharmacology—incidentally, that may come to change very shortly. There's a
544 literal war going on in this med school at the moment. Pharmacology is in the Department of
545 Medicine and wants out. It wants its own life, separate. There is no department of biochemistry.
546 One I've omitted—

547 **RINGROSE:** You mentioned anatomy.

548 **HAMBURGER:** Yes, I did. Anatomy is taught by anatomists and surgeons in the Department
549 of Surgery! Biochemistry, which is a separate department in most med schools, is in the
550 Chemistry Department at UCSD.

551 **RINGROSE:** Here are the five basic science areas: anatomy, physiology, pharmacology,
552 microbiology, and biochemistry.

553 **HAMBURGER:** You know what I left out. I left out Dave Bonner's old department at Yale,
554 microbiology, which at UCSD is in the Biology Department and so is part of biochemistry—part
555 sits in the Biology Department and part in the Chemistry Department. And on top of that, we've
556 got faculty in the School of Medicine from sociology and from literature, and political science
557 who interact with us, and in fact, there are actually a few appointments—a few FTEs in those
558 fields out of Med School funds. Prof. [Aaron V.] Cicourel is the only one who comes to mind at
559 the moment who actively participates in the campus department as well as in the Medical
560 School.

561 **RINGROSE:** Wasn't Lola Ross on a Med School FTE?

562 **HAMBURGER:** Yes, Lola was on for a long time. And she may still be on.

563 **RINGROSE:** And Faustina Solis?

564 **HAMBURGER:** Yes, and we had a psychologist, or two psychologists. Tony Deutsch for
565 example. All his labs originally were in the Medical School.

566 **RINGROSE:** Oh, I didn't know that. He's over in psychology.

567 **HAMBURGER:** Tony was a conservative right-winger in the radical days and stood out by
568 himself. We had one other, a member of the Biology Department, [Silvio Varone]. The two of
569 them were very lonely in those days.

570 **RINGROSE:** So essentially, I know I'm oversimplifying this, but you're talking about a structure
571 in which one assumes that the human organism in its "normal" state operating the way it ought
572 to be operating, is like any other organism, and belongs in academic departments, and it is
573 looked at like rats or mice or anything else. And when it begins going wrong, that comes under
574 the umbrella of pathology, and is shifted over to the division that handles things that are going
575 wrong—which I recognize is being terribly simplistic.

576 **HAMBURGER:** Well, you could say it that way, but I'm going to even object to that.

577 **RINGROSE:** Oh, ok.

578 **HAMBURGER:** And the reason I'm going to object is that it isn't the case that we send our
579 students over to the Biology Department, but in fact we ask the Biology Department to send its
580 superb biologists—not the second-best group, but its top people, into the Med School to help us
581 teach our medical students, which is quite a different attitude. It says that the Chemistry
582 Department has the top chemists in the world. Now why should the Med School's Biochemistry
583 Department have to pay higher salaries to get the second-best guys? That is not true—
584 absolutely—but in fact, that's what it looked like. Many medical schools—there are exceptions—
585 Stanford's a good exception—but many medical schools had only second raters in their science
586 departments, because first raters wouldn't go to a med school! They didn't feel that was their
587 real home. They wanted to train Ph.D.s, not M.D.s, make more of themselves. So, what was
588 clever and novel at UCSD was to expose medical students to deluxe everything, not second
589 best. So, the attitude was elitist, as you said earlier. It was not really these are fundamental
590 animals, although we do in fact believe that, that the physiology of a mouse is no different from
591 the physiology of a human, except as the mouse and the human differ. But their fundamental
592 systems are identical.

593 **RINGROSE:** As long as they work right.

594 **HAMBURGER:** No, the pathology is almost identical, too. But there are certainly exceptions
595 to both those statements— There are enzymes that are in humans and other primates that don't
596 exist in mice, and vice versa. And there are diseases that occur in mice that we don't have, and
597 diseases we have that mice don't have. But the way we do diseases is very similar. So, we
598 always, when we're looking to refer new treatment or a new cure or a new understanding, we
599 always try to find an animal model. Then we can do the kinds of studies that need to be done on
600 the animals first, and then later on the humans.

601 **RINGROSE:** Let's talk about the early structure that was set up for this. I've listed some things
602 that are possibly of interest—faculty governance, the relationship between the faculty in
603 medicine, and the campus faculty—I believe you set this up with a dual appointment structure—
604 is that right? Initially?

605 **HAMBURGER:** Initially, yes. I still to this day maintain my appointment in Revelle. I'm still a
606 Revelle faculty member, and in the School of Medicine. And it was our assumption that all
607 clinicians who cared to maintain a research role, an active research program, would be entitled
608 to have campus appointments in one of the—at that time there were going to be twelve
609 colleges—in one of the twelve colleges. At the time in one of the two existing colleges—Revelle
610 and subsequently Muir.

611 **RINGROSE:** Of course, it was assumed that everyone would belong to the senate, and there
612 would be a single Academic Senate, which is quite innovative, is it not, to have a single senate?

613 **HAMBURGER:** There was to be absolutely no separation in senate, but in fact, as the Med
614 School became larger and larger, it continued to be in the senate, but also developed its own
615 structure, so that it has an appointment structure, and it has meet-ings that are for medical
616 school faculty only. The reason for that is not exactly some-thing that the campus would object
617 to. The reason is that in the medical school we have all our people in the structure, whether they
618 have FTE appointments, hard money appointments, or soft money appointments. So, if they are
619 a professor-in-residence, they're part of the Med School Senate. And if they have any kind of
620 appoint-ment, they are part of "the Senate of the School of Medicine", and it has caused a lot of
621 difficulty on who can vote for what. Nevertheless, that structure we feel is essential, since you
622 cannot run a med school on the wherewithal provided by the state. It takes a lot more—in fact, it
623 takes two to two and a half times the amount that the state pro-vides to run your medical school
624 well.

625 **RINGROSE:** Now if I were a clinician affiliated with the Med School who taught classes, but
626 did no research, and had no joint appointment on the upper campus—

627 **HAMBURGER:** I don't think we have anybody full-time who does no research. We have a few
628 part timers to fill in clinical needs that can't otherwise be met.

629 **RINGROSE:** What I'm wondering is whether this kind of a person then can belong to the
630 regular Academic Senate.

631 **HAMBURGER:** No, no way. In fact, he's not even a member of the Med School Senate. He
632 will have a so-called "salaried clinical appointment." He can vote only on exclusively Medical
633 School phenomena. He cannot vote on the senate matters—matters before the senate. And
634 then we have a very small number of part timers, and they are an accident. They're just a
635 practical matter of either we haven't been able to recruit somebody for a particular specialty, or
636 we're between recruits, or there's no money for that particular area and yet it needs to be
637 represented in at least a token manner, and those people work in the community and work for
638 us part time.

639 **RINGROSE:** Now with a structure like this, where does this leave the dean of the Medical
640 School? In more conventional academic structures with separate schools—separate
641 professional schools—the dean is a very powerful person. But in a structure like this, with a
642 single senate and so on, that could be a different matter.

643 **HAMBURGER:** Well, not necessarily. The previous deans all behaved in the manner you just
644 described. That is, they acted as though they were chairmen of the board, and the faculty
645 governed itself with a little bit of help from them. The present dean, however, is taking a more
646 active leadership role. He has reorganized the school in terms of the two major committees that
647 run it, which he chairs. So, our medical school is changing, in practice if not in principle.

648 The design of the UCLA medical school is just the reverse of ours in that it encourages Sherm
649 Mellenkopf to be an absolute ruler. He is the longest surviving dean to my knowledge anywhere
650 in the UC system, and he is anything but a dictator. He is a tremendously clever consensus
651 obtainer. He's the world's greatest compromiser and negotiator. In a medical school that is
652 designed to give him an enormous amount of power, he wields it with great restraint.

653 **RINGROSE:** Did you realize when you set up this structure that part of the novelty was going
654 to generate this problem with the dean? I mean, the dean was going to be a little like a super
655 chairman, right, in your structure? And yet he has got an awfully large organization to manage
656 to behave like a super chairman, and he has got a lot of outside pressures being applied to him
657 by people who are accustomed to deans who can operate the way Mellenkopf can operate. In
658 your structure, it is easy for the dean to get caught in the middle.

659 **HAMBURGER:** Absolutely. And, as a result, I don't think we have had a dean survive five or
660 six years, maximum. The problem is that they have to serve several masters, on the main
661 campus, in the medical school, and in the community.

662 **RINGROSE:** When we talked earlier, we planned to talk about funding issues, especially the
663 strict full-time pay plan. I haven't been able to dig up much more information about that, but now
664 that I've seen the two storage file boxes in your office, maybe there's something there. But let's
665 talk about that, because I don't think most people understand the nature of the issue, and I
666 found it very interesting when we talked about it before. I think it's crucial to how things
667 developed.

668 **HAMBURGER:** Well, it fits in with something that you brought up earlier, and that is the whole
669 economic—social/economic situation of medicine. It was our belief, the early planners of the
670 Medical School, that if we could sell it to the Board of Regents, all the way up the university-
671 wide line and including the Board of Regents, that it would be highly desirable to try to put a
672 strict full-time school of medicine in the University of California system. There had never been
673 one. The other schools are geographic full time. That means you do all your practice in the
674 university environment, but your salary is a modest salary, provided by the state, and the rest of
675 it is your earnings, which you get to keep after you pay a small overhead. That produces a
676 medical school that can be quite good. Often it is a highly competitive faculty, competitive not
677 with each other, but with the community. Medical School faculty members are, as in the case in

678 Los Angeles, enormously resented and directly competitive with the community doctors—many
679 of them use their professorship as a public relations device for gaining a lucrative practice.

680 It was our assumption that the way we could sell a strict, full-time system to the Regents was
681 that it not only would be self-supporting, but the Regents could make a little money on it. Now
682 why is that true? It's absolutely true and was very much resented by some of the physicians in
683 town who said, "You are selling out to the state! Because you are after all, even though there's a
684 little protection by the Regents, you are state employees, and what you're proposing to do is
685 turn over some of your clinical practice earnings to the state." And I said I didn't think we were
686 doing that. What I really thought we were doing was bartering security for a somewhat lower
687 salary, and if there was any money left over after all our salaries were paid, we didn't get to
688 keep it. It went back into the Medical School. Now if it will make you happier, we will not allow it
689 to go back to the Regents, or into the general fund, but it must stay in the Medical School. Of
690 course, the Regents saw through that immediately, and said, that's fine. Because what that
691 meant was that if you kept \$100,000 for the Med School, they could put less—that's right, from
692 the budget. And in fact, the system was established in that manner. We had, fortunately, a
693 couple of surgeons—I remember one in particular, Ben Geddes, who was a professor of
694 urology, who subsequently left us and went to Harvard when the place started to come apart—
695 he is now Chairman of Urology at Harvard—Mass. General—a superb man, but foresighted
696 enough to say, "I will sacrifice" because it's really the surgeons who support us along with the
697 anesthesiologists and the pathologists who support the rest of the faculty.

698 **RINGROSE:** Who paid their insurance?

699 **HAMBURGER:** The Regents paid for it for the Medical School—in those days there was
700 actually an insurance policy for malpractice insurance. All other insurances—most others—were
701 underwritten by the Regents themselves. They self-insured. They did it, in a businesslike
702 manner, but they didn't have a separate company doing it. I believe they self-insure malpractice
703 now, too, or maybe they always have. I'm not sure about that. But I know that we've always
704 been covered, and it is now, I believe, up to five million dollars apiece, and it's full-time. In fact,
705 recently I have been having a little argument with the dean about using malpractice insurance
706 as a way of controlling the faculty.

707 **RINGROSE:** So, describe how this full-time pay plan would work for a typical—

708 **HAMBURGER:** Well, we had to first develop a pay plan, which literally specified the salary of
709 each and every individual in the place. We had a locked-step eleven-month salary for every
710 rank, instructor through full-professor step five or six, and every rank had a salary, and it was a
711 full clinical salary. It was damned near double in some places—it was in fact double a nine-
712 month regular ranked faculty salary on the campus. The planners, like Dave and Roger and Jim,
713 had enough sense to know that to recruit in a new medical school in a novel area of the country
714 first class clinical faculty, as well as research clinical faculty, would require decent salaries. How
715 do you find out what that is? Well, it was simple. We just screened all medical schools' salaries
716 that were strict full-time, and there were at that time five or six of them still left in the United
717 States, including the University of Chicago, which was our model in the pay plan. Yale was

718 another model. I can't name the others. Pittsburgh, I think was one. I can't remember all of
719 them. But we found out what their salaries were, took a mean, and set ourselves at the 90th
720 percentile, not the 50th, which was a clever place to be, and we said that gives us some room.
721 As long as we stay above the 50th percentile, we would be able to survive, because we have a
722 lot of good things going for us here in terms of recruitment. But to start out at the 90th percentile
723 of strict full-time pay scales was a very good place to begin.

724 I will insist, and I know I can get an argument with other members of my faculty about this, but I
725 will insist that had it not been for the Reagan administration when he was Governor and his fury
726 and the administration's fury with the way students were behaving in those days, and fixing our
727 salaries for four consecutive years, the pay plan could not have been broken. Because the
728 faculty said, be damned if we're going to be locked to the politics of Berkeley. We're going to go
729 geographic. Well, we negotiated, and some of us didn't want to, and fought, and came up with
730 something part way between. So, we continued our strict full-time pay plan, with a carrot—a little
731 incentive pay on top of it. And that, three years later, got further eroded to what we are now—
732 which is homogeneous—we're all variants of the same pay plan, which is composed of, three
733 parts: a guaranteed part from the state, which is termed "X" and is not as low as it used to be,
734 but it's low, in fact, very similar to the eleven-month regular faculty pay. Then there is a "Y",
735 which is a percentage of our earnings—pooled—used to be pooled, now is no longer pooled.
736 And a "Z", which is actually a fraction of the dollars we personally bring in. Now, as of last year
737 with this new dean, it is eroded to all personal income. It's state and personal. And that's
738 disastrous because it hurts not people like myself, who have been here so long. I have a
739 reasonably well-established salary, but it hurts the young faculty who are trying to get started.

740 **RINGROSE:** Well, it must make it hard to recruit new people in certain specialties, if it's a
741 specialty you can't get started in practice here. I have heard that some specialties are really—
742 loaded in this town.

743 **HAMBURGER:** Recruitment is now very difficult. To succeed we have to become competitors
744 with the community. But the community can beat us easily because of the facilities that we
745 have—being a split med school—without a bona fide research and teaching medical hospital—
746 it's the worst of both worlds.

747 **RINGROSE:** Yes, it's a very interesting issue, and I think it's one that very few people on the
748 outside understand. I'm a little curious how—let's say that you brought in someone who was—
749 we're using the strict, full-time pay plan. You bring in somebody who's going to be primarily a
750 researcher, but he'll have a joint appointment in biology and medicine. He's a superb geneticist
751 for example.

752 **HAMBURGER:** Not an M.D. Or is he an M.D.?

753 **RINGROSE:** No, a Ph.D. Now, is he going to end up paid on the regular upper campus, full
754 professor salary schedule? Or is he going to end up paid on the Med School salary schedule.

755 **HAMBURGER:** Originally there was no separation. A Ph.D. researcher got his same—he
756 could have an eleven-month or a nine-month salary—but the scale was the same. If it was the
757 Chemistry Department or the Biology Department, he was paid like a chemist or a biologist.

758 **RINGROSE:** My impression was that your scale was scaled higher for those people.

759 **HAMBURGER:** Now. Not when we were strict full-time. We added a 3% incentive on the first
760 erosion, we added— I forget what the fraction was, but it was a sweetener, besides being
761 guaranteed eleven months instead of nine. On the main campus, they had to go get their own
762 summer salaries. If they were working in the Med School, they got eleven months salary,
763 because the Med School runs twelve months of the year. And they were entitled to a month's
764 holiday. But no, there were no two salary scales origi-nally. We didn't have a differential. But as
765 the pay plan became more corrupted by the failure of the legislature and the Regents to live up
766 to their commitment and responsi-bilities, more and more fixes got put in so we could continue
767 to recruit and so when somebody got promoted, he got a pay increase, not a decrease— I
768 mean, we had to constantly fix a decaying system that was being allowed to go to wrack and
769 ruin by the Regents and the legislature. It was punishment. Everybody admitted that we were
770 being punished for not keeping our students in line and allowing them to use dirty words on the
771 Berkeley campus. So, you can imagine how resentful the Medical School was with that.

772 **RINGROSE:** Well, I think there was a period when the humanities faculty were definitely being
773 punished, and as long as you've got a single system, then you got punished right along with
774 them.

775 **HAMBURGER:** Oh, exactly. We were not the focus, but we got the same treatment as
776 everybody else. But it was a stupid thing to do. It was destructive to the campus, and a lot of
777 people, and the fact that we survived it in reasonable health is remarkable.

778 **RINGROSE:** Let's talk about some of the hospital issues you mentioned a few minutes ago.
779 The situation with the former County Hospital, the now University Hospital—has been a very
780 difficult one. And I don't fully understand the relationship with the VA Hospital. Was that
781 originally intended to be a teaching hospital?

782 **HAMBURGER:** Oh, Amen! In fact—

783 **RINGROSE:** What happened to all that?

784 **HAMBURGER:** It still is a teaching hospital, and I think that we were able to negotiate an
785 arrangement with the VA far better than most med schools have. We literally control the faculty
786 there. Absolutely. They have approval—right of approval over whom we select. That goes for
787 everybody except the director—everybody in the place. And that's a remarkable
788 accomplishment. It therefore broadens enormously our faculty in medicine and surgery and
789 psychiatry. Those three fields, plus pathology. Anesthesiology, I keep omitting it because it was
790 not a separate department. It became a separate department for historical reasons. It had
791 nothing to do with good planning.

792 Somebody became powerful enough to demand his own department or quit, and they gave it to
793 him. The same thing happened in ophthalmology. Same thing will happen in pharmacology in
794 the next year or so. Because that's an enormous threat and it is very hard to hold the line for
795 technical reasons when you've got a fact in front of you—a guy's going to quit.

796 **RINGROSE:** Now the County Hospital was taken over because they needed more space than
797 the VA provided, or would it provide other options?

798 **HAMBURGER:** The purpose of the County Hospital and the reason we leased it on a
799 temporary basis was to provide clinical facilities until we could get our hospital built on campus.
800 That got sabotaged.

801 **RINGROSE:** What—you have to forgive me. I'm such a lay person at all of this—why?

802 **HAMBURGER:** You have to have a place to teach.

803 **RINGROSE:** Ok. And you don't have facilities to do that at the VA Hospital.

804 **HAMBURGER:** Oh, absolutely not. That's number one. And number two there's no ob/gyn,
805 and no pediatrics, no public health, no—I mean none of the—half the med school wouldn't exist.
806 One-half. That's not correct, because it would be one-third of the medical school would not exist
807 if you did it all at the VA. But we can control that, and you can't run a teaching program in just a
808 VA, but a VA can be an enormous supplement. Had we built our 250-bed hospital on campus,
809 that VA would have been hamburger helper, an extender, plus the gravy that would make
810 everything function.

811 **RINGROSE:** Where would that hospital have gone?

812 **HAMBURGER:** Right here. There's a master plan. You can see it, it's all drawn. It's right here.
813 There was a walk—you see that walk out there—out the window? That walk was supposed to
814 extend from the middle of the campus, the middle of Revelle, all the way to the VA. And on
815 either side of it would spring up the needs that bridge between Bonner and Revelle—Bonner
816 Hall and Revelle campus—and the VA. The med school, basic science, clinical science,
817 children's hospital, some research institutes—ok? They're all on the master plan! You can see
818 where—I can show you exactly where the hospital is supposed to be. It ain't there—as you
819 know! Lots of dreams have been sabotaged and the destruction of a master plan that was—to
820 this day I would insist it was brilliant—brilliant in its innovativeness, and it's trying to put into a
821 state medical school what had only previously existed in private medical schools: excellence!
822 science! commitment! non-economically aggressive, turning out socially responsible physicians!
823 These were all fantastic dreams that were all going to be accomplished by the design of this
824 medical school on a strict full-time pay plan. And all of us were deeply committed to all of those
825 factors. And one by one, for reasons that have nothing to do with the greatness of that design,
826 they were lost. I sit here fighting now for trivia when we've already lost the big important items.

827 **RINGROSE:** There was a lot of difficulty in Galbraith's administration over University Hospital,
828 and for example, the costs of remodeling. Do you want to talk about that at all?

829 **HAMBURGER:** Not much. I stayed out of that as much as I could. I think they may have used
830 that to undermine him.

831 **RINGROSE:** You mean Galbraith?

832 **HAMBURGER:** Yes. That could have been handled by negotiators from university-wide. They
833 didn't get around to it until after Galbraith's time and then finally sent down their own negotiators
834 who had had experience in other hospital situations and knew what they were doing! Up until
835 then a proctologist friend of ours was doing the negotiating. It was terrible. They were outwitting
836 him. And he didn't know—he didn't understand what he was doing.

837 **RINGROSE:** Now you've talked about the problem of living in the worst of both worlds with a
838 teaching hospital essentially downtown. I assume it's more than just peo-ple having to truck
839 back and forth that makes it difficult.

840 **HAMBURGER:** Communication. The students with the faculty. With the researchers. There's
841 a loss of contact, a loss of—different points of view based on where you're located that makes
842 for non-cohesiveness.

843 **RINGROSE:** That's a loss of community—that of course is a problem.

844 **HAMBURGER:** That's what we're suffering right now.

845 **RINGROSE:** Things that you do when you sit down for a cup of coffee in some central place.
846 And that's where the problems of the world get thrashed out in a non-combative way.

847 **HAMBURGER:** Exactly. Or that you happen to run into people—absolutely right. But if you try
848 to do it in a formal manner, each one looking through his own little narrow scope, and there's no
849 community and there's no understanding, and very little give. “Well, that’s the problem down
850 there...”

851 **RINGROSE:** What about students? Do you think they've changed since you started the med
852 school?

853 **HAMBURGER:** Not much. Not nearly as much as you'd have expected. It's probably due to
854 that ten or fifteen year lag. By the time our students are weak, which, if we keep going in the
855 direction, we're going they will be, I'll be long gone. The quality of the students was incredible
856 the first few years. You couldn't maintain that. But they have continued to be superior! We've
857 had little ups and downs, but the whole variation has been at a level that would make your heart
858 sing. And if you're somebody like myself who likes to have bright young people around, it's been
859 a joy. I don't know whether only the cream is seeking me out, or I'm only letting them see me,
860 but the ones I know—and I only know a small part of each class—are just a pleasure. They're
861 bright, and eager, they 're still deeply committed to society.

862 **RINGROSE:** That's good to hear. I've wondered if they were culturally aware—

863 **HAMBURGER:** No, they don't come in greedy little bastards. They go out like that—and
864 maybe not even out of the med school like that. They're pretty starry-eyed when they leave
865 here. When they finish their residency, there's nothing starry-eyed about them. Too many of
866 them are tough, hardened and out to make their fortunes as quickly as possible. Fortunately, we
867 still end up with some civilized humanitarian physicians who maintain my hope for our future. At
868 recent ten-year class reunions, some members of each class continue to put societal needs
869 ahead of their incomes— It is very reassuring.

870 **RINGROSE:** On behalf of the project, I would like to thank you for giving me your time today.

[END OF PART TWO, END OF INTERVIEW]