

Computing Educators Oral History Project

An Interview with Mark Weiss

Conducted March 5, 2015

At Kansas City, Missouri, USA

Interview conducted by Barbara Boucher Owens

Copyright Statement

This manuscript is being made available for research purposes only. All literary rights in the manuscript, including the right to publish, are reserved to the Computing Educators Oral History Project. No part of the manuscript may be quoted for publication, except by the interviewee, without the written permission of the Director of the Computing Educators Oral History Project.

Request for permission to quote for publication should be addressed to Barbara Boucher Owens, either by email at ceohp@ceohp.org or via postal mail at Computing Educators Oral History Project, Southwestern University, P.O. Box 770, Georgetown, TX 78627-0770 USA. The request should identify the specific passages to be quoted, describe the anticipated use of the passages, and identify the requestor.

We recommend that this oral history be cited as follows:

Mark Weiss, an oral history conducted in 2015 by Barbara Boucher Owens, Computing Educators Oral History Project. Online: ceohp.org.

Interview Context

This interview was conducted during the SIGCSE Technical Symposium 2015 in Kansas City, MO.

1 [0:00]

2 **Barbara Boucher Owens: This is an interview with Mark Allen Weiss from Florida**
3 **International University conducted by Barbara Boucher Owens. This interview is being**
4 **recorded on March 5, 2015, at Kansas City, Missouri, United States of America. It is**
5 **part of the Computing Educators Oral History Project. Did I get and say your name**
6 **correctly?**

7
8 Mark Weiss: You sure did, Barbara.
9

10 **B: Thank you! Good. Well, I usually start this interview by having you go way back. Way**
11 **back. So I want you to tell me about your parents — about their work, their life, did**
12 **they have anything to do with computers. Just tell me a bit about your parents**
13

14 M: Well, of course, there weren't any computers back then. So, my mom was a schoolteacher
15 and my dad was a dentist. My mom was a Spanish teacher, so I wouldn't say she was a
16 technical person. I think, in our generation, children of my age were responsible for things
17 like programming the VCR. That was not for parents to be doing — stuff like that. So
18 definitely they were there. My mom was not a computer person or TV person or technology
19 person or anything like that. My father was more of that, for sure. More a science person,
20 being a dentist.
21

22 **B: Did they grow up in the city? In New York City?**

23

24 M: Yeah. My mom grew up her whole life in New York. My father moved to New York at a
25 young age from Europe. My dad ... we lived in lower east side Manhattan, so my dad lived
26 in that general area probably almost his whole life — give or take 5 years.

27

28 **B: Tell me about where you grew up. Tell me about the community that you grew up in,
29 about the kind of school you went to.**

30

31 M: Well, the lower east side of Manhattan is a ... it was a Jewish neighborhood. Jewish, Italian.
32 Very much what you would see in the old pictures. The schools in the area at the time — not
33 so good. And since my mom was a schoolteacher in a better school district, she was able to
34 get us into the school district where she was teaching.

35

36 So we went to public school and middle school in Queens, which was a little different. You
37 have to drive in a car twenty minutes, but it was against traffic. So if you're going from
38 Manhattan to Queens in the morning you're doing the right thing. And vice versa going back
39 in the afternoon. But certainly the kids who were in the school that I was in, you wouldn't
40 really see them after school or anything, which you would nowadays if you were living in the
41 district.

42

43 The high school was a special high school, Stuyvesant High School. Very ... you had to take
44 an entrance exam to get in, it's a math / science-focused high school. Pretty much one of the
45 best high schools for that in the country. Produces Westinghouse — well, they used to be
46 Westinghouse; now I don't know what they call them, Intel Science Fair or something like
47 that — produces those winners. Many university professors — computer science and math,
48 physics — have gone through there. A couple of Field Medal winners have actually gone
49 through there. So that high school was close to the house. That was actually the first time I
50 was at a school nearby. It was just a bus ride.

51

52 **B: Can you remember back in your elementary days? Can you remember favorite classes,
53 favorite teachers? Can you ...**

54

55 M: Well math. I was always really good in math — not so good in reading, not so good in
56 writing — but always really good in math. Always top of the group in math.

57

58 I remember they used to have you ... they used to give you these multiple-choice tests and
59 they'd score your grade level. And I don't know how they come up with these numbers
60 because it doesn't make any sense now that I think about it. But you would take the exam in
61 third grade and it would be a basic adding or subtracting kind of exam, because that's what
62 you did in third grade back then. And if you got all the questions right, they would say you
63 were a 12.8, meaning you were doing this at a twelfth-grade math level. Somehow, in third
64 grade they were claiming I was ready to go to college for math, but, of course, that's kind of
65 ridiculous. So math was always a good, easy subject; came naturally for me.

66

67 Teachers I don't remember too much of the teachers from back then; for why I really ... I
68 don't know. But I don't remember too many of the teachers from back then at all.

69 [5:25]

70 **B: Did you have any siblings?**

71

72 M: My ... one sister. She's a year younger than me.

73

74 **B: And can you tell me about her?**

75

76 M: Sort of ... did all the same ... went to the same schools. Didn't have the same math interests
77 that I did. But she's still living in New York. But not a computer person at all.

78

79 **B: What field did she pursue?**

80

81 M: She wound up doing stuff working with insurance; actuarial work, stuff like that.

82

83 **B: Little bit mathy.**

84

85 M: I guess you could say that now that I think about it. But ... but she didn't really like it. She
86 wound up doing it, but I don't think she really liked it. [Barbara laughs]. But you've got to do
87 something to pay the bills.

88

89 **B: You commuted back and forth to school until you got to high school, but did you have
90 interests outside of the classroom? Things you remember loving to do as a kid and then
91 as a high school kid?**

92

93 M: You know, not so much. I think at that point in my life I think I was kind of ... studious more
94 than anything and ... of course, like everybody, we had TV, so we watched the baseball
95 games. We used to always watch baseball back then. Oh yeah, I remember the summer of
96 1977, 1978, Bucky Dent, I'm sure you remember watching those games. So always ...
97 baseball back then — this was from before the cable television age — so back then every
98 baseball game was on free TV. You know, channel 11 in New York you could watch all
99 these games. And hockey and basketball games. The road games were always on TV, but
100 never the home games. And so you would always be able to watch the sporting stuff on TV.
101 So I used to watch a lot of that stuff. But I was no scholarship athlete or anything.

102

103 **B: Scholarship watcher. [Both laugh] OK!**

104

105 **So both you and your sister went to college?**

106 [7:54]

107 M: Yes, we both went to the same college, Cooper Union in New York City, which is even
108 closer to where our house was than the high school — although technically you had to take a
109 bus there and then you had to walk farther from the bus station, so ... But it was pretty much
110 the same thing, you could walk home from Cooper City ... from Cooper Union if you wanted
111 to.

112

113 And it was a very small place — much smaller than high school. In Cooper Union, you only
114 have art, engineering, and architecture schools. The three hardly ever see each other. And

115 then in engineering you only have — at the time electrical, chemical, mechanical, and civil, I
116 think — and we maybe had 35 students in our class and that was that — in electrical. So
117 maybe a hundred and ... I would guess, maybe 130, 140 students per class. That's the whole
118 university. So ... a very small place. But very selective, in that it offered, at the time, full
119 scholarship to anybody who attended there as part of the endowment. So, heck, that was a
120 pretty good deal, a full scholarship, even back then, so they would always get people wanting
121 to go there. They didn't have any trouble rounding up people.

122

123 **B: Did they have opportunities to live on campus or did everyone commute that went**
124 **there?**

125

126 M: I think everybody commuted. There was a little bit of people, who ... mostly they, at the
127 time, from what I remember, they commuted from the tri-state area. And some people would
128 live in New York City housing near the campus. But dorms and stuff like that, I just don't
129 remember any of that stuff. I think they might have put some of that in in later years. But I
130 still remember people taking the PATH trains from New Jersey, coming in to the university
131 ... college.

132 [10:19]

133 **B: I'm going to keep stepping back because I want a little better picture of you in those**
134 **transition years from elementary school to when you chose Cooper Union. So a little bit**
135 **... how were your parents in terms of encouraging you? What kinds of things did your**
136 **parents do to make you want to go to Cooper Union? To make you want to be a good**
137 **student? What ...**

138

139 M: Well ... for high school, it was ... I don't know if they were specifically encouraging it so
140 much as ... as much as ... that high school was one of the best high schools in the city and
141 the high school that we were zoned for was pretty bad. So it was like, "You really have to get
142 into that high school." It was ... it helped that the way entrance exam was structured it was
143 very biased towards math. So there wasn't too much doubt that I would be able to get a good
144 enough score to get into the high school.

145

146 When I was in high school I was interested in the math. I wouldn't say I was a great student,
147 but probably good enough. And I was young at the time because I had started ... I started
148 school a year early.

149

150 **B: How did that happen?**

151

152 M: Well, probably I drove my mother crazy. So she said, "Okay, send him to school." And back
153 then there was more of that than there is now. I think they've done some studies lately saying
154 maybe that's not a great idea, to push the kids this far ahead. But back in the day, if you
155 wanted to get a kid a year ahead, all you had to do was go to a private school and they would
156 do it. So she didn't think I needed to be home any longer than I was and so that was a year
157 early.

158

159 And then in New York at the time they had a program called the two-year SP program¹. And
160 so they would take an entire class and, instead of ... middle school, back then, was junior
161 high school, was [grades] 7, 8, and 9. And instead of doing [grades] 7, 8, and 9, they'd have
162 that whole class just do [grades] 7 and 9 and skip [grade] 8 and somehow put some of the
163 [grade] 8 [material] into [grade] 7 and some of the [grade] 8 [material] in [grade] 9, so they'd
164 compress it into a shorter time frame. But the whole class did it. In fact, I think ... it might
165 have been even two classes, maybe 30 or 60 kids in one class, did that. It wasn't that unusual.

166
167 So I skipped two years. So when I graduated, I was on the young side and so it was ...
168 parents weren't really excited about sending me off anywhere. There was a perfectly free
169 university right down the block that people are killing themselves to get into, so why not go
170 there? So, I think one of the things I might mention tomorrow during the talk is there's a lot
171 of talk about how you attract students and stuff, but sometimes the students have nothing to
172 do with it. Sometimes, the parents have so much influence on the kids and you're doing all
173 these programs targeting the kids. Maybe, if you want to make some things happen, maybe
174 you need to target the parents too and I'm not sure how much targeting the parents people are
175 doing lately. But, in my case, somebody could have targeted my parents if they really wanted
176 me to go somewhere ... if they really wanted me to pick a different major or go to a different
177 college. So target the parents. Target the parents.

178
179 **B: You've talked quite a bit about your mother. How about you dad? What was he ... did**
180 **he want you to be a dentist? Did he encourage you ... ?**

181
182 M: Well, of course, my parents wanted me to be a doctor! Of course! God, what's wrong with
183 you, Barbara? You know that! [Barbara laughs] So it was a very big disappointment that I
184 didn't do that. When I went to ... I was going to talk about that tomorrow, too, actually. I'm
185 giving away half the talk! I hope the talk is decent ...

186 [14:56]

187 So when I went to Cooper Union, obviously I was going to choose engineering. It wasn't
188 going to be art — I can't even draw a stick figure. So which engineering do you pick? And,
189 as it turns out, if you want ... my parents really wanted me to go to medical school. And in
190 order to apply to medical school you have to take Biology and you have to take Organic
191 Chemistry. At least you did back in the day, I don't know if you still have to. And, so if you
192 are going to take Organic Chemistry, you might as well be a Chemical Engineering major.
193 That was the whole thought process in choosing a major back then. Both my parents wanted
194 me to be a doctor. And this major was just kind of a thing. You're just going to school
195 because before you can become a doctor, you have to have a four-year degree. It's incidental.
196 It means nothing what this degree is. Just get the grades. [Barbara laughs] OK? So that's the
197 whole thought. But it turns out that when I was at Cooper Union, eventually I did some
198 computer stuff and I liked it. But I can't say that my parents encouraged me to be a computer
199 person or electrical engineer or anything because of the field. [Barbara chuckles]

¹ The SP (Special Progress) program was an opportunity for classes of gifted students to compress three years of junior high material into two years. Prior to WWII, this same program was called RA (Rapid Advancement); it existed at least as far back as 1916.

200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244

B: So what was your sister doing at that time?

M: Well, she was a year younger than me. So she eventually went to Cooper Union also.

B: What did she study at Cooper Union?

M: Are you not paying attention, Barbara?

B: I am!

M: Pick the major!

B: Well, I ...

M: Chemical Engineering!

B: Chemical Engineering. OK. All right.

M: Got it?

B: Got it. So she was supposed to be a doctor too?

M: Yes. But part of the problem with Cooper Union is to apply to medical school, you really ... especially back then, you really had to have super high GPA. It was tough. Nowadays, I guess there's more grade inflation everywhere now than there used to be, but this was late 1970s. So the grades hadn't ... I think grade inflation sort of started in — from what I understand, maybe you can tell me if I'm wrong — I've been told grade inflation started in the 1960s, the Vietnam War era, when professors were getting pressured by students to inflate the grades so they could stay in college because if they didn't get ... so they could get into grad school. Because if they couldn't get into grad school, they could get drafted. Is that right? Does that sound like ... ?

B: That sounds like a possibility. I was thinking it also coincided a bit with open enrollment — I was at City [University of New York] at the time — but this is an interview with you, not me!

M: Oh, sorry! So anyway, so ... back then, anyway, to get a GPA ... a medical school kind of GPA from Cooper Union was pretty tough. That part of the plan maybe my parents didn't ... didn't count on.

B: The school was close, but ... All right.

Did you work at all while you were in high school or in college, outside of the ... ?

245 M: Only in the summer. In ... let me think — now I have to think back farther. Not in high
246 school. In college I did. One year, I did some ... just nonsense kind of a job, you know,
247 working in an architecture company as a “gofer boy”.

248
249 But then another year, the folks ... the good folks from IBM came to visit Cooper Union and
250 gave a talk and they did some recruiting. So I think it was my junior year, but I’m not
251 positive, but I think so; this is 30 years now. I wound up doing an internship at TJ Watson,
252 Yorktown Heights. So I did that for a couple of summers when I was in college.

253
254 But definitely didn’t have a job while I was in college. It was much different than it is now,
255 especially at FIU. So many students now are working while they’re in college. It changes the
256 whole game really.

257

258 **B: So what did you do at IBM Research when you were an intern there?**

259

260 M: I was working on some projects that involved Unix. At the time, IBM was looking at doing
261 some Unix for some of their products. Don’t remember too much more about it. It was so
262 long ago.

263 [19:51]

264 **B: You don’t remember who you worked with ... or did you have a mentor there?**

265

266 M: Yeah ... I can’t remember his first name. His last name was Rosenberg. I can’t remember,
267 offhand, the first name now.

268

269 It was an amazing place just to go there because you would walk the halls and you would see
270 on the doors these names. And ... back then, I wasn’t a graduate student or anything, so you
271 just had ... you would have your books, like your Aho, Hopcroft, and Ullman, and you’d see
272 at the end of the chapter they’d have those further references and stuff. And you’d see, “Oh!
273 There’s Ralph Gomory.” “There’s Herb Schorr — Schorr-Waite garbage collection.” He was
274 the vice-president of research at the time. You would see Mark Wegman’s office was right
275 there, you know, [John L.] Carter [and] Wegman. There was just ... boom, boom, boom,
276 boom, boom, you’d see all these names that you would recognize as ... at the time, many of
277 them were from the 1960s, legends of the 1960s, right? And it was amazing to see that big
278 collection there.

279

280 The building itself was just so huge. I never ... you grow up in New York, the buildings are
281 tall, but they’re not long. And over there, that thing must have been a quarter-mile long with
282 this dark glass all the way around. It was kind of amazing. They had a lot of summer interns
283 there. They really tried to make it fun for everybody who was there and they would have
284 picnics and stuff and it was a great experience. And they did offer me a job when I graduated.
285 That was probably the whole point, right? And ... but I just didn’t want to work. So I went to
286 graduate school.

287

288 **B: Didn’t want to work! [chuckling]**

289

290 **Well, tell me about the professors in college. I mean, it is clear you had a little bit ...**
291 **that you had awe of the people working in research.**

292
293 M: Yes.

294
295 **B: Now were there particular professors at Cooper Union that inspired you or even**
296 **pushed you towards ... ?**

297
298 M: Yes. So Cooper Union ... so ... my major originally was chemical engineering, but the first
299 semester you take basic chemistry. I did okay in the course, but I was coming from the
300 mindset of, "If this is really my major, shouldn't I get an A in it?" I don't think ... the kids
301 don't think like that anymore. The kids will take the first course and, if they pass it with a
302 minimal pass, they're good to go to the next course. They don't question whether this is
303 really the right field for them. But after I took that chemistry course and it was an okay grade
304 but it wasn't anything special, it was like ... "is this really the right ..." I started thinking, "Is
305 this the right major for me?"

306
307 And we also had to take a computer course that first year, everybody had to take it. And
308 Cooper Union didn't ... I mean nobody back then — I shouldn't say nobody, but there
309 weren't a lot of computer science degrees back then — so Cooper Union didn't and still
310 doesn't have a computer science major. It was electrical engineering.

311
312 So they had somebody who was teaching computer ... a basic computer course. And he was
313 really the Director of the Computer Center. He wasn't an assistant professor. He wasn't an
314 associate professor at the time. He was just running the computer center and that was part of
315 his job, was to also teach the first course. And I really liked it. So that was Bob Hopkins. And
316 he's been there — he's still there I think — he's been there since the 1970s. Did the whole
317 computer science thing there and actually they eventually — he was so good — eventually
318 they ... he's an associate professor now. They actually moved him into the professorial
319 ranks. And he would have ... he would run the lab and use a lot of student volunteers to sit
320 down and help out. So I got involved in that. I spent a lot of time in the computer lab.
321 Definitely, he was really memorable.

322
323 He had a good teaching style. Funny. A really funny guy. I always think people who teach
324 should be funny. You want to convey the information but it's also ... it's not like life and
325 death, so you try to have a good time with it too a little bit. And he definitely was like that so
326 you could always go to his class and learn some stuff but also get a decent show at the same
327 time.

328 [25:08]

329 Since they didn't really have computer science faculty — it was very small, it was all EE
330 people — they would bring in adjuncts to teach the courses. And usually they had a steady
331 stream coming in from Bell Labs. I guess ... it must have ... it sounds like it was really far,
332 but it must have been easy to get on the train and get right there because there was a train
333 station nearby, PATH train was nearby.

334

335 So there were a couple of those guys that came in. One of them was Ned Horvath, who I
336 know is still around, I think he's in Texas somewhere teaching or working with the
337 University of Texas. And he was really good. He did the data structures, kind of algorithms
338 course. He did the compiler course. And it was ... I just remember back then using the Aho,
339 Hopcroft, Ullman book and you see the end-of-chapter notes and Chapter 3 was on sorting
340 and there you'd see a reference. And you'd see, "Horvath, stable sorting" and I was like,
341 "Wow! Holy mackerel! This guy must be a genius! He published a paper! Wow!" But later I
342 found out that he did his Ph.D. at Princeton and worked with Ullman and I don't know that
343 the paper itself was the world's greatest paper. But he worked with Ullman and it was some
344 sort of important result. But he also could ... he could really teach. He was really good. So
345 they had a couple of those kinds of guys at Cooper Union.

346
347 So eventually I switched my major from chemical engineering to EE, because that's what
348 you had to do. Partially ... those people teaching the computer science courses came in well
349 after I already switched majors. Since I was an EE major, all the computer science courses I
350 took at Cooper Union were basically elective courses. Didn't even need them to graduate.

351
352 I graduated with some ridiculous number of credits. And nowadays we call it a double major;
353 back then it was just ... an ambitious student. But back then also there was quite a few
354 students who were just taking tons and tons of classes. There was one student there who took
355 31 credits in a semester. He got almost all As. And now it was like, "Okay, he's taking 31
356 [credit hours]! Well, you can't just only take 18; it's an embarrassment!" Right? So a lot of
357 people would take these computing courses because it seemed like interesting stuff ... at the
358 time and the teachers were pretty good.

359
360 But the actual reason that I switched into EE is really ... well, (A) I didn't like chemical ... I
361 didn't think I was good in chemistry. So I was trying to figure out, "OK, what major should I
362 take? There's only three left!" (Electrical, civil, and mechanical.) So somewhere in my head,
363 I said, "Well, I'm good in math. I think electrical has much more math than the other ones.
364 I'll go with electrical." I looked at it recently. It [electricalengineering] doesn't have much
365 more math. It's more than civil, but electrical and chemical — at least, in the required courses
366 in most programs — is pretty much the same math. And when I was there the last couple of
367 years, I could see what the mechanical engineers were doing and they were doing a lot more
368 math than we were. At least, it looked like it. Because they were basically doing physics.
369 And ... but, you know ... people make these decisions and well ... it turned out great, I
370 guess. But ... the right answers, the wrong reasons sometimes.

371
372 **Well, so you went straight through in four years but graduated with a crazy number of**
373 **credits. Is that what I'm hearing you say?**

374 [29:28]

375 M: I think I had a crazy number of credits. It was way more than 120. Now, in Cooper Union, I
376 think just to graduate you have to have like 135 [credits] for engineering, but I had more than
377 that. I probably had like ... maybe 140 something. And that ... I mean, nowadays that ...

378
379 In a public school you can't do that. In a state school like Florida, if you need 120 credits to
380 graduate and you graduate with more than 132 credits, the university's in ... that's a negative

381 for the university. Our Board of Governors is going to say that the university graduated a
382 student with excess credit hours and bad. And we're measured on how many students we can
383 graduate without going over the excess credit hours. So it's a different time, because ... well,
384 they don't want to pay for that. It's a state school; it's not a private school.

385

386 **B: So another thing I've been hearing listening to you; you've only talked about guys —**
387 **guy teachers, guy students, guy educators. Were there any women in the program?**

388

389 M: You are correct. There was one woman in the EE program at the time. There were a few
390 more women in the other engineering programs at the time. But this was a very ... this was
391 late 1970s and this was a very male school for engineering. The high school situation was
392 also very similar. The high school was actually all male until 1969. And ...

393

394 **B: When were you there?**

395

396 M: ... I went to high school the 1976–1979 period. So it was starting to get more women in, but
397 you would know that that's ... seven years, not much is going to happen in seven years,
398 going from all-male to ... in there.

399

400 So it was ... there was not that many women in the high school, but the women that were
401 there were great. One of the women a year behind me was Lisa Randall. She won the
402 Westinghouse Science Fair, first prize. Went on to ... she's a renowned physicist now. A
403 member of the National Academy of Sciences. She was the ... I think she was the youngest
404 tenured professor, or tenured faculty member, in the Physics department. What was the
405 story? I think she was the first female physics person to get tenure at Princeton and now she's
406 at Harvard. But a complete star, right? And there's a few more of those, for sure.

407

408 **B: So when did you decide to go to graduate school? How did that happen? You said you**
409 **didn't want to work.**

410

411 M: Didn't want to work! So what are the options, right? But it's not like I was totally against
412 working, I did interview a couple of places. But ... I figured I would ... a lot of other people
413 were also looking to get Master's degrees or Ph.D.s. So I said, "Let's apply to graduate
414 schools and see what happens." So I had a couple of job offers, but then I also had a couple
415 of offers for graduate school.

416

417 **B: How did you go about picking graduate schools or programs?**

418

419 M: I applied to big names and then the fallback was that I could do a Master's degree at Cooper
420 Union. All right? And the different big names — one of them didn't take me; a couple of
421 them took me. And then there was various degrees of assistantship support and stuff like that.
422 But Princeton was the closest and it made the most sense, anyway, just ... I think, at the time.
423 So that's where I wound up going.

424

425 **B: Do you want to talk about the others that you were thinking about? Or you'd prefer not**
426 **to ...**

427

428 M: Well, there was ... I guess there was Stanford and Berkeley. They both accepted me.

429

430 **B: And these are in Computer Science or in EE?**

431

432 M: Well, Berkeley was EE/CS and I was officially an EE major. So I was also on the ... I was
433 still on the fence if I was going to be EE or CS or ... like I say, nowadays, what I did back
434 then was either like a double major or maybe you might even call it computer engineering,
435 not straight computer science.

436 [34:33]

437 So, yeah, I went out to Berkeley and Stanford with a friend who had also gotten admitted
438 there and looked at the places. And ... they're great departments. Probably at the time better
439 departments than Princeton. But in terms of university name, probably Princeton's [was] still
440 the bigger name. And Princeton had ... definitely had a much better financial offer package
441 and stuff. And ... and it was closer.

442

443 **B: And what did department were you?**

444

445 M: At Princeton?

446

447 **B: Yeah.**

448

449 M: At the time it was EE/CS department. So it was still ... Princeton was still one big
450 department. And they had ... they had ... and so the degree you would get would be a Ph. ...
451 I think the degree you would have gotten at that time would have been a Ph.D. in EE/CS, the
452 degree would be called Electrical Engineering and Computer Science. I'm not positive of
453 that, but I think that's what it was.

454

455 **B: So were you admitted to the Master's program at that time or the Ph.D.?**

456

457 M: No, I was admitted — and that's part of the issue — I was admitted directly into the Ph.D.
458 program. Whereas at Stanford, they were willing to admit me into the Master's program, but
459 not the Ph.D. program. So Master's program and then see how you do, and then Ph.D.
460 program — in part because I didn't really have a straight CS background.

461

462 Don't really remember Berkeley, but I think that was more the EE/CS ... again, that was an
463 EE/CS department, so I don't if they were that much split off at the time. I'm having a hard
464 time remembering that part. So I think the fact that I was ... that Princeton admitted me
465 directly into the Ph.D. program is probably what made the offer more competitive to start
466 with. I think Berkeley had a really big department at the time. Princeton had a smaller
467 department and it was easier to meet with some of the faculty who were there when I went
468 there to visit. And it ... I guess I wasn't really ready to fly across the country at the time.

469

470 **B: So did you move to New Jersey ...**

471

472 M: Oh yeah, yeah, yeah.

473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517

B: ... for school?

M: Oh yeah, yeah, yeah. So lived on campus in a ... it's called The Graduate College. So I lived in The Graduate College for four years. The graduate college ... you know, all the Princeton buildings are old and beautiful, really. The graduate college, I think, was built in 1913 maybe. Has a big tower, the Cleveland Tower. It's the only monument to Grover Cleveland, our 22nd and 24th president, who I think was the governor of New Jersey or something like that. I really should know. [Barbara laughs.] But ...

So that was ... that was ... that was my college life, right? Because I didn't have a college life, so that was a little bit of college life. I definitely ... you know, I didn't live off-campus. Definitely. I was happy to stay there and have all the food ... the food plan and everything like that. And the dining halls. And ... Yeah.

B: So tell me a little bit about your studies at Princeton. What did ... what set you on the path that you took and what influenced you ... ?

M: Well, I tried ... I tried ... my first year, I tried three Computer Science courses and — let me think about it — and, actually, one EE course. And the EE course didn't go so well. And the Computer Science courses ... I hit the jackpot with some really great teachers. I mean, obviously Princeton is known for research. But those guys can teach, too.

B: Who did you have? Do you remember?

M: Sure, I did a course with Ken Stieglitz. He's ... he'd been around there a long time. I think he just recently retired. He did a lot of interesting work and co-authored a combinatorial optimization book with Papadimitriou back in the 1970s, so it was a relatively fresh book at the time.

Took an automata course with Dick Lipton. And, again, Dick is ... Dick Lipton was great at teaching material, telling stories, and stuff.

[39:40]

And I took a VLSI course. So that was kind of half in software and sort of half in the EE side, with Andrea LaPaugh. It was probably the ... probably one of the best courses I ever took. She was really fabulous.

And ... so those courses ... with those courses — that was my first semester there — and based on those courses and my abysmal EE course, I knew ... pretty much knew at that point that, okay, it was going to be Computer Science. That's where ... that was the end of my EE courses. And the rest of my courses were in Computer Science.

B: How did you pick what you were going to study for your thesis and ... ?

518 M: So the department was EE/CS. And so at some point the decision was made to break up the
519 EE/CS into EE and CS. I think Computer Science — I mean the faculty in Computer Science
520 — must have been pushing for that for years and years and years — from what I've heard. So
521 finally they did it.

522
523 And they ... when they made the Computer Science department, they hired Bob Sedgewick
524 in from outside. He was a professor at Brown. And they hired a whole bunch of faculty, too.
525 It must have been a big package deal, because all of the sudden, within a few years, the
526 department had grown. They brought in some senior people like Bob Tarjan and Andy Yao.
527 They hired Kai Li as junior faculty. Bernard Chazelle came from Brown with Bob
528 Sedgewick. So the department kind of grew.

529
530 My topic was basically ... sort of random. Every week somebody would come in and give a
531 talk. One week it was Bob Sedgewick's turn to give a talk. He was talking about something
532 and he said, "Oh, here are some open problems" he was interested in. And I was ... one of
533 them caught my attention. And I went off and did some computer programming and stuff and
534 made some progress on it. And that's not a thesis right there, but that's how I got involved in
535 that particular area. And the thesis had to do with shell sort and those kinds of sorting
536 algorithms. So ... back in the day, that stuff was in vogue.

537

538 **B: And so you studied under Sedgewick?**

539

540 M: Yes.

541

542 **B: He was your major professor.**

543

544 M: Yes, so he was my major professor. At the same time he was running the department, right?
545 He was also the department chair. So it was ... but then that was ... it was definitely a great
546 experience.

547

548 And you also would know ... Sedgewick at the time also had these books going on. I
549 remember when I went back to Cooper Union and Bob Hopkins asked me, "Who's your
550 advisor?" And I said, "Oh, it's Bob Sedgewick." And he whipped out, "Oh, I have his book."
551 I was like, "OK!" He didn't know anybody else there, but he knew Bob Sedgewick. He
552 didn't know Bob Sedgewick was of red-black trees, that's kind of important, too, right? But
553 he knew of the book.² So that always stuck with me a little too.

554

555 **B: [chuckles] I see a pattern here.**

556

557 M: What is that?

558

559 **B: You modeled your ... both your ...**

560

561 M: Bad behavior! Modeling bad behavior [laughter from both]

² Sedgewick, Robert (1983). *Algorithms* (1st ed.). Addison-Wesley. ISBN 0-201-06672-6.

562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606

B: Yeah! Did you ... it sounds like you really didn't deviate from this. So you ... did you say you were only there four years?

M: I was only there four years ...

B: So you were quite young!

M: I don't know how I got out of there in four years actually. That's kind of a miracle.

B: So you must have been 16 [years old] when you started ... when you started Cooper Union. So you were 24 [years old]?

M: Yeah. Yeah, right. So ... and then I went straight to FIU [Florida International University]. And that's where I've been.

B: How did you decide on FIU?

[44:00]

M: Well, 1987 was not a particularly good winter. It was snowing a lot. And I do mean a lot. So that influenced some of the places where I applied to.

Now back in the days, you would just open up your *Communications of the ACM*, go through it, and you'd pick out the ones you liked. And it was early enough ... it was late enough, I guess, in the computer era, that you could form letter apply — not like you do now, you had to do a little bit of work — but you could send out more than just a couple back then. And so I picked the ones I liked and I sent out a bunch. And FIU was in there because it's Miami, it's a horrible winter, right? So why not? A lot of New Yorkers go to Miami.

So they called me. It wasn't a particularly good season to be applying for jobs. So as it turns out, 1986 was a good year to apply for jobs. I would have done much better in 1986. And somehow around 1987, it wasn't a good year. And in 1987, the stock market crashed in October. So 1988 and after that was bad for a lot of years. Universities were having the pick of the litter. So I applied to FIU and they were one of the places that called. So I went down there — I didn't think I'd wind up there, but then there weren't a lot of different offers. Theirs was good and it was Miami and all that. So I thought, "I'll try it for a couple of years."

B: A couple of years? [laughs]

M: You see what happens! [laughs] So I'm still there, almost 30 years now.

B: So one of the things ... reasons you're here is because you've received ... you're receiving an award as outstanding educator and you have valued the teaching part of your career. Can you tell me a bit about how you view your career as a professor? And how did it evolve?

607 M: Well, I guess when you're an Assistant Professor, you're out there trying to publish or perish.
608 And "publish" means journal papers — back then. I guess now it means more conference
609 papers. But back in the day, that's ... you had to try to do as much of that as you could. And
610 so I did that for a while. But somehow I also wrote my book,³ while I was still an Assistant
611 Professor. Not really too smart a thing to do, generally speaking. I wouldn't really ... when
612 you hire Assistant Professors, I don't tell them "Hey, why don't you write a book, great idea
613 for tenure." It's not really a great plan. But it worked out okay. You would see you had a
614 paper in a journal; you had a book; and what did people know? What was actually making an
615 impact? Very obviously, it was much more with the book.

616
617 So I gradually started doing less of the research because it wasn't ... there's a lot of great
618 researchers out there and so you can't ... it was hard to even think that I could do much more
619 than just publish. You can put more lines on your vita and publish and publish until you have
620 a lot of papers, but it wasn't going to do much. And then with the book, we were back in that
621 crazy time where ... you'd write a book and then there was a new language, "Why don't we
622 do a new language?" Right? Well, you remember, every year there was a new language.
623 Nobody knew what the language was. But everybody knew that they were right. So
624 everybody wants the book and they don't want to say, "We'll just have it in pseudocode and
625 then we'll put it in our own code in there. We'll translate it ourselves." They want the book
626 in that language because that's the right language. So then I spent a lot of time doing that.
627 Because ... my editor said you should do that. I figured they must know what they're talking
628 about. So I spent a lot of time doing that and less time doing research because of that.

629
630 So at some point, the research took a back seat to everything and I spent a lot of time on the
631 books. And then eventually I spent a lot of time in the AP [Advanced Placement] world. But
632 that stuff is ... I think, made a difference. I think people can look at that stuff and draw
633 different conclusions about AP. It's not for everybody. But you can definitely say that there
634 was some contribution there. And so I've very much enjoyed all that stuff. I don't write
635 books as much or as frequently anymore. I'm a little out of the AP world now. But I always
636 look back on it rather fondly.

637 [49:46]

638 **B: So what's your typical semester like now?**

639
640 M: Well, a few years ago I wound up getting into administration. So a lot of it ... administration
641 is a mixture of you're trying to do great things and have an impact and trying to convince
642 people to do some new stuff. At the same time that you're solving a lot of problems that
643 sometimes ... that shouldn't even have to be solved. There shouldn't even be these problems,
644 but things have to be done. So there's a lot of that and then there's a lot of day-to-day work
645 because departments don't just run themselves. We'd like them to, but they don't.

646
647 And FIU is a big university. We have over 50,000 students. The Computer Science programs,
648 of course, are growing. I took over as the Associate Director at probably the absolute worst
649 time. In that ... budgets ... in 2009, budgets got slashed at most state universities because we

³ The first edition of *Data Structures and Algorithm Analysis*, published in 1992.

650 were coming off the banking collapse. So budgets were going down at exactly the same time
651 that enrollments were going in the opposite direction.

652

653 I remember Maria Klawe was saying something about that, how, “Well, we’ve had boom
654 times in computer science before — no big deal — but we never really had them at the same
655 time when budgets were getting decimated.” Departments around ... departments were
656 getting closed around the country and faculty hiring was being frozen around the country.
657 And then ... but you have all these students who want to come into your major. And things
658 have to be done. You do the best you can. So ... a lot of ... a lot of just trying to run a
659 department takes up a lot of time. Solving problems. Students ...

660

661 **B: So you’re not in the classroom at all anymore?**

662

663 M: I still teach. I don’t teach ... back ... used to be I’d teach two or three courses a semester.
664 Now it’s maybe one a semester.

665

666 **B: What’s your favorite?**

667

668 M: The Data Structures and the Algorithms courses. Of course, that’s ... those are my favorites.
669 I’ve taught ... I’ve taught the lower ones before — the programming, the intro programming,
670 or it might be the course between the real data structures and the intro course — that’s hard.
671 That’s really ... that’s hard stuff. Guys who do that and do it well are amazing. I don’t know.
672 I did that a while ago. I was okay at it. I don’t know ... if I did it now, I don’t know if I’d still
673 be okay at it.

674

675 **B: What gives you the most joy?**

676

677 M: Oh, I guess ... you mean, besides when the semester is over? [both laugh].

678

679 I think what most professors would tell you, especially the ones who are doing any
680 reasonable amount of teaching, is when you hear back from the former students. And the
681 former students will tell you something. Sometimes they’ll say, “I went on an interview and
682 they asked me this question and it was on the test or it was our assignment and it was almost
683 like it wasn’t fair.” So those ... I think everybody would say that kind of ... that’s what
684 you’re looking for. It’s certainly ... I think it’s from the students more. It’s not like your
685 annual evaluations don’t ... nobody cares about those anymore. You’re tenured ... you’re a
686 tenured, full professor. Who cares what the annual evaluations say? So I think that’s what
687 keeps a lot of people going. You have a class full of students and especially, I think, they’re
688 coming and they want to ... they do want to get educated. Some days are better than others.
689 Some days I just go in and just don’t have it. And a lot of days you do and when the students
690 tell you that, it’s great.

691

692 **B: What ... do you have a teaching philosophy? Is there some ... ?**

693

694 M: You know, I always ... any class that I give, I always want every student to walk out of the
695 class and be able to say they learned something. I don’t think they have to learn everything I

696 talked about, but that they learned something in that class. If they learned nothing, then it was
697 a complete waste of 50 minutes or 75 minutes or whatever it is. So, did they get something
698 out of that class that they didn't get. Because the rest of it they can go back and maybe figure
699 it out.

700

701 **B: Have you changed your style at all over time?**

702 [55:17]

703 M: Well, I do a little bit ... I started recording my classes recently and ...

704

705 **B: Video recording?**

706

707 M: Yeah. You know, not sure about it yet. One of the things with the video recording, it seems
708 like more ... when I do the recording, as you get deeper into the semester, students feel like
709 they can skip the class more easily because they know there is a lecture that is being
710 recorded. And I know at the end ... as they're getting towards the end of the semester... I'm
711 kind of struggling with it. I know maybe they need to skip the class. Maybe the work is piling
712 up. As I said, a lot of our students work and they have all these projects getting due and
713 maybe they need ... maybe they just have to skip the class and they know the recording is
714 there. But they feel more entitled to skip it if the recording is there. But I'm still struggling
715 with whether that's a good thing or a bad thing. I'm not so sure yet.

716

717 But, yeah, I definitely do more the live coding kind of stuff, where I'll write the programs
718 rather than try to sketch pseudocode on the board. I'll actually write code, especially if I'm
719 teaching a Data Structures course. Now that we've been in Java for ten, fifteen years, where
720 I've written this code so many times, I can close my eyes and write the code. But there's
721 definitely a "Wow" factor.

722

723 When I was at Cooper Union, we had a math professor who was really great. He would just
724 go in, no notes, and just whip off these impossible theorems like it was nothing. Right? And
725 so I always ... I haven't used notes since my first semester. My first semester, I used notes. I
726 had my whole lecture planned out like they ... I think people tell you, "Oh yeah, you got to
727 prepare for class. You got write all the notes out. You got to have this." So I have these notes
728 and I'm looking at them and I couldn't read my handwriting. But I'm trying to follow my
729 notes and I'm trying to write this code for the queue. And I'm screwing it up because I can't
730 read my notes. So after that semester, I decided, "I don't need notes. I'm going to do it
731 without notes." Because ... well, for the first couple of years I practiced it more, before. And
732 ... but then after a while you teach the same course, I can just walk in. And some of these I
733 can do completely cold.

734

735 So I don't use the notes; I like to do the live coding more. You know ... not too much has
736 changed with my style, though, besides that and the videos. I guess I'm ... I guess I still have
737 some catching up to do, maybe I'm a little old school. But I guess ... I know a lot of our
738 younger faculty — and I encourage them to do it, but not me — are doing more stuff with
739 active learning, where you are getting these classrooms with the tables that move all over the
740 place. They can do a demolition derby if they want with those tables. And some of them are
741 doing pair programming and all these kinds of things. But I don't know. It's just like ... I

742 think what I've been doing was working. I'm not sure if I can pull off that other stuff. And
743 I'm a little too scared to try it. So that part's stayed the same. But it seems like it's ... it
744 seems like it's okay, just ... but I haven't done any scientific studies on this. Maybe I don't
745 want to know.

746 [59:32]

747 **B: You don't want to know! [both laugh]**

748

749 **What are you doing in the professional community? I mean ... societies? Do you go to**
750 **meetings? What service role ...**

751

752 M: I haven't ... the family life has kind of taken over. I haven't ... I used to go to SIGCSE pretty
753 much every year. I haven't been to SIGCSE in over ten years now. I've always been, "Oh,
754 let's go, let's go!" I thought when it was in Atlanta, that was almost close enough to try to
755 pull it off. But professors have the professor life and they also have the family life. And it
756 was a lot easier back in the day to do that stuff.

757

758 So lately, I haven't been doing too much in the professional community. I've been doing my
759 thing at FIU internally in the administration — a lot of stuff there. The professional stuff, that
760 was really from the 1990s. In the early 1990s, I actually did some stuff with SIGACT, which
761 is the automata and computing people. I used to write some columns over there for a few
762 years. And then, of course, I did the AP stuff for maybe ten years. So between them, that's
763 like fifteen years and that's kind of a lot. It's not bad.

764

765 And maybe in a couple of years when the kids are a little older, I can get back to it, because I
766 do like the conference. There's so much stuff going on and you don't really want to be away
767 if you ... if you have to, but if it's impossible to avoid. But I've seen people here ... I ran
768 into a lot of people just the last hour that I hadn't seen in years, that were on AP committees
769 at some point. They're retired and they're still here. So, it's amazing what a great community
770 it is.

771

772 **B: Can you point out any major challenges your career has had? It sounds like it's been a**
773 **pretty straight path.**

774

775 M: I've been pretty lucky. I haven't been ... it has been a straight path. And there have been
776 some random choices that I've made that have turned out okay, for no ... without any real
777 skill on my part. As I said, this whole concept of writing a book when you're an Assistant
778 Professor is not a brilliant concept.

779

780 **B: If you'd known more, you wouldn't have done it.**

781

782 M: Yeah, if I would have thought about it. And actually our director at the time said, "Are you
783 sure you want to do it?" Right? But, you know ... back in the day it was okay. So it's been
784 okay. It's probably not a great decision to totally let go of doing research. If I had to do it
785 over again, I probably would have tried to stay with that a little bit longer. But probably at
786 this point I think I have only so much energy I can focus things on. And between keeping my

787 administrative role, keeping my family life, and I still have to revise books every now and
788 then, I think something has to lose in that picture. And so right now that's ...

789

790 **B: One of the questions — we're getting toward the end — and that is do you have outside**
791 **interests. And what I'm hearing the outside interest is family.**

792

793 M: Yeah.

794

795 **B: That's the major, or maybe the biggest, interest. Can you tell me some of the things that**
796 **you enjoy with your family?**

797

798 M: Well, I enjoy just ... we're not an adventurous family. We're not travelers or we'd have
799 travelled all here and destroyed the whole conference. But ... no, I can spend time with the
800 family, which is getting harder and harder to do, especially as some of them are getting older
801 and they don't really want to spend time. The younger kids ... the younger kids are still
802 young enough that they're not terribly embarrassed of the parents yet.

803 [64:33]

804 **B: Did your parents come to appreciate that you were a college professor?**

805

806 M: I think ... I think my mother eventually did when ... I think eventually she did.

807

808 My father passed away a while ago. For ... it's been over twenty years. So ...

809

810 **B: You were a professor by then.**

811

812 M: I was a professor. But I was a professor at ... I wasn't a professor at Harvard. I was a
813 professor, right? So I'm sure he was good with it. My mother was, for many years, just upset
814 that I couldn't write her a prescription. But these things are important. When you need that
815 prescription, you really would like your son to be a doctor. [Barb laughs] And I couldn't do
816 that.

817

818 But, after a while I think she started to appreciate a little bit of ... part of the perks of ... what
819 people who are tenured full professors like. There are some things that are nice and ... in
820 some cases it could be better than being a doctor. She has friends, and my sister has friends,
821 we all have friends who are very high-paid doctors. But they have these ... pagers — well,
822 they don't call them pagers anymore, beepers, whatever they are now, I guess they're cell
823 phones right? — and these things go off no matter where they are and there's an emergency
824 and they have to get to the hospital. Now, I work a lot. I work at night. I work past midnight
825 sometimes. You do too. All the professors do that. But if we're out doing something, nothing
826 is that important that we have to ... we don't have to leave the hockey game in the middle
827 because we just got something on our cell phone work-related. So, there is ... there are some
828 things maybe that doctor life wasn't ... isn't everything. I think she was okay with it at the
829 end. But who knows! She might still have been saying, "If only he wrote me that last
830 prescription!"

831 [67:08]

832 **B: Is there something that you're thinking career-wise that you would like to accomplish**
833 **before you retire or after you retire? Do you have a future vision for yourself?**

834
835 M: I thought you were going to ask me, "When do I get to retire?"

836
837
838

839 **B: What does your wife do?**

840
841 M: She's also a professor in Computer Science at the university. But she's off the tenure track,
842 so she's ...

843
844

844 **B: Teaching?**

845
846 M: ... in the teaching sphere. Doing a lot of our service courses. She sees tons of students. She
847 has thousands — two thousand students a year maybe — in these service courses. And
848 whenever I need to hear about what's really going on in the university — what are these
849 students really ... what are their real problems, what's the real things — she's always quick
850 to tell me that when I teach a class I just have a little club going. She's got all the masses
851 there. And she can tell me anything I need to know about why some solution is not really
852 going to work.

853
854

854 **B: That's great!**

855
856 M: And ... I'm not sure. That's hard to say because I have a while to go until I retire apparently.
857 And so ... you would like ... I'd like to find ... get through my administrative phase of life, I
858 guess. Then... I usually break up my career into seven to ten year spurts maybe. So I'm
859 getting near the tail-end of the administration, probably, another year or two, who knows. So
860 the question really wouldn't be what do I want to when I retire, it would be what do I want to
861 do ...

862
863

863 **B: Next.**

864
865 M: ... when I go back to the faculty. What is there to do? And that's something I probably ought
866 to start thinking about in a couple of years. But again that might be something where by then
867 the kids are older and a lot of stuff off my plate and then maybe it's time to get back into the
868 community again.

869
870

870 **B: We'll take you back.**

871
872 M: That would be so nice if you would.

873
874

874 **B: We'll take you back.**

875
876 M: After you hear my talk tomorrow, you might not. [both laugh]
877

878 **B: Well, if — and this you’ve kind of skirted around it, but ... if there a piece of advice to a**
879 **young person right now about going into computing — especially a young woman,**
880 **because this started out as a project mainly about women in computing. And it**
881 **morphed into having men being interviewed and become part of it because without**
882 **both perspectives there ... it’s difficult to make any conclusions.**
883

884 **So what would a man advise a young woman or what would a man ... what would you**
885 **advise anybody about choosing a career in computing?**
886

887 M: Well, I have two daughters. I, for the life of me, don’t know why they wouldn’t be able to go
888 into computing because ... it’s almost the same thing I told you about how I was responsible
889 for programming those VCRs. Nowadays if — now that I’m an old person and I have all
890 these gizmos, these iPhones and all other things that need fixing or setting or tweaking — I
891 just give it to the girls. They go, “Dad don’t you know how to do this?”
892

893 And my daughter does all this stuff with video software — which is basically programming
894 — she makes these amazing videos and she’s doing loops and all this other stuff. And the
895 younger one is still in elementary school and they did the code.org thing⁴ there. So I don’t ...
896 I don’t ... I don’t know. I’m not an expert on this. I’ve been out of the community for so
897 long. But for the life of me I don’t know why this would be a turn-off, right? Why. Because
898 they don’t seem ... it’s not like they’re coming to me and saying, “Dad, get this iPhone away
899 from me. I don’t want one. Ever.” No, my girls aren’t saying they don’t want an iPhone ever.
900 No, it’s ... I think it’s an iPhone 6 or whatever the latest model is. That’s ... “Dad, why are
901 you using the Droid? What’s wrong with you?” So, I don’t know.

902 [71:56]

903 I do get the role model thing. So I ... as an administrator, I get to pick and choose instructors
904 and lately we’ve been able to hire women instructors. Not because they’re women
905 instructors, but these are the women instructors that are doing that active learning stuff. I
906 mean really interested in education strategies. And I don’t know if specifically they’re
907 targeting women or anything, but just ... just osmosis almost.
908

909 So, I don’t know eight or ten years from now what’s going to happen. Departments lately, to
910 me, with these crazy enrollments, have just been trying to keep their mouths and their heads
911 above water, just to struggle to get classes offered and courses taught. You presume that’s
912 going to stabilize at some point. But yet you would also presume that the younger generation,
913 they don’t — women, the girls — they don’t seem scared by technology, by computers.
914 When my sister was growing up, she didn’t want to know anything about that VCR — “call
915 Mark!” But it seems ... when they’re coming up, it seems a little different. But, I’m not ...
916 haven’t done any scientific studies ... about that. I have a small sample. But my daughters
917 have a lot of friends and they all have iPhones and they’re all facetimeing each other and
918 they’re all trading apps and they’re all doing stuff, and they are not scared of those computers
919 at all.

⁴ From the code.org website: *Launched in 2013, Code.org® is a non-profit dedicated to expanding participation in computer science by making it available in more schools, and increasing participation by women and underrepresented students of color.*

920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962

B: I have one other question. And that is — and you can think about this for a second — if there’s one story that you would like to tell, that would be “I remember when Mark said that.” Can you think about any story you’d like to tell, like “Man, it was the best day in the world when I published my textbook” or “I remember the time that this student came back to me and said ... whatever.”

Is there some story that you’d like to tell?

M: Wow! Let me think about that one. Hmmm. [about 14 seconds of silence as he thinks]. Yeah.

B: Okay.

M: Yeah, there is. It was SIGCSE 1997. It was in San Jose. It was a really good SIGCSE for me. I gave a ... it was just ... we were just starting the Java craze. So, of course, it was time to do a Java book, right? So I’d already started working on a Java book and, of course, I had to test some of this stuff out on the kids ... so we were teaching. So I did a Data Structures course in Java. I think nowadays you wouldn’t be allowed to do that, just change the syllabus, pick a new language, and not tell the department chair. But back then, “I’m just going to do it.” So I did the course in Java and then sent the paper to SIGCSE about it. This is actually my only paper at SIGCSE. I was on a lot of panels and stuff, but this is the only time I actually did a SIGCSE talk and it was pretty well attended. But that wasn’t the highlight.

The highlight was: I get back to the Addison-Wesley booth — I think it was Addison-Wesley at the time, they’ve been through so many versions — and my sales rep over there — actually, it was my editor who was at the booth — my editor says, “Oh, you just missed him. Don Knuth was looking for you.” So, 1997 was when Don Knuth had just done the revisions of his books,⁵ of course, and the conference was in San Jose, which is of course right down the block from Palo Alto. So Knuth came to SIGCSE to show off the books. I mean why not? And so I said, “What do you mean he’s looking for me?” She said, “No, he came by and said ‘Is Mark Allen Weiss at this conference?’” He used the full name, too, because that’s how Don does stuff. I was like, “Well, ughhhhh!” And so somehow they eventually found him. And so I talked to him for a little bit. And amazingly he also started — he had just done a paper with somebody on shell sort — so he also started to talking to me about research, which was “Oy, oy oy!” — at that point I was starting to get out of it — but I still remember it because he actually asked for me by name. And so they took a picture, I still have it. It was a Polaroid back then. Remember, there used to be a company called Polaroid that would make these pictures that would develop instantly? And he signed it for me and I still have it. So definitely that’s ... that’s something somebody would remember, because when you do some work and then somebody actually knows about the work when prompted — and a lot of people don’t, because a lot of very senior people like Knuth, they’re not teaching Data Structure courses anyway, they’re not using the book — so it’s a lot of younger people now would be using it, not the elder statesman. But that he would know that book and ask for me

⁵ Wikipedia provides a good starting point for becoming familiar with Knuth’s seminal work: https://en.wikipedia.org/wiki/The_Art_of_Computer_Programming

Computing Educators Oral History Project (CEOHP)

963 ... I made sure to show the picture to the boss and everything. That was probably ... so that's
964 my favorite SIGCSE.

965

966 **B: That's a great story.**

967

968 M: Yeah.

969

970 **B: A really good story. Well we've wrapped it up. And I appreciate the time. And thank**
971 **you very much. I look forward to your talk tomorrow.**

972

973 M: Okay. Thank you, Barbara.

974 [79:00]