WEBVTT

1 00:00:03.845 --> 00:00:05.448 - Hello everybody welcome,

2 00:00:05.448 --> 00:00:08.150 we're gonna give it just a second for everyone to get set up

3 00:00:08.150 --> 00:00:10.150 and then we will get started here today.

4 00:00:17.870 --> 00:00:20.180 Right, it looks like most are connected to the audio,

5 00:00:20.180 --> 00:00:22.982 so I welcome you all thank you for joining us,

6 00:00:22.982 --> 00:00:25.691 my name is Becca Melnick.

7 00:00:25.691 --> 00:00:27.254 I'm the associate director of admissions,

8 00:00:27.254 --> 00:00:28.330 here at the Yale School of Public Health.

9 00:00:28.330 --> 00:00:30.610 I recognize many names, I've seen you all

10 00:00:30.610 --> 00:00:32.070 on events earlier this week,

11 00:00:32.070 --> 00:00:34.730 and I've conversed with a lot of you throughout the process

12 00:00:34.730 --> 00:00:36.962 so, thank you for joining us today,

13 00:00:36.962 --> 00:00:41.310 this session for our Executive MPH Virtual Open House,

14 00:00:41.310 --> 00:00:43.528 is focused on the Environmental Health Sciences Track,

15 00:00:43.528 --> 00:00:46.100 as hopefully many of you have seen,

16 00:00:46.100 --> 00:00:48.014 we've had other events throughout this week,

17 00:00:48.014 --> 00:00:51.270 a general program overview,

18 00:00:51.270 --> 00:00:54.352 sessions for other tracks specifically,

19 00:00:54.352 --> 00:00:56.520 and we'll be having other events for financial aid careers,

20 00:00:56.520 --> 00:00:58.930 and the intensives leader in the week.

21 00:00:58.930 --> 00:01:03.010 So with that, I will turn it over to Yong Zhou,

22 00:01:03.010 --> 00:01:04.550 who's the track coordinator,

23 00:01:04.550 --> 00:01:06.980 to talk a little bit more about our EHS Track.

24 00:01:06.980 --> 00:01:08.270 And we'll just say that,

25 00:01:08.270 --> 00:01:10.240 we want this to be interactive and helpful for you,

26 00:01:10.240 --> 00:01:12.328 so please feel free to ask questions that you have as we go.

27 00:01:12.328 --> 00:01:16.411 - Thank you, Becca and everyone joining us today,

28 00:01:26.833 --> 00:01:27.666 so this is a brief overview

29 00:01:30.416 --> 00:01:31.890 about Environmental Health Sciences Track.

30 00:01:31.890 --> 00:01:32.723 That's the first from page.

31 00:01:32.723 --> 00:01:34.797 So just a little bit about myself,

32 00:01:34.797 --> 00:01:39.170 My name, Yong Zhou, I've PhD in Molecular Biology,

33 00:01:39.170 --> 00:01:42.470 currently I'm Associate Professor of Epidemiology,

34 00:01:42.470 --> 00:01:45.520 in the Department of Environmental Health Sciences,

35 00:01:45.520 --> 00:01:48.720 So my research area is in the field of

36 00:01:50.025 --> 00:01:50.893 molecular cancer epidemiology.

37 00:01:53.589 --> 00:01:55.485 Basically dealing with biomarker,

38 00:01:55.485 --> 00:01:59.073 or social weights, environmental exposures

39 00:01:59.073 --> 00:01:59.906 and the disease progression disease, CLPD outage,

40 00:02:01.995 --> 00:02:03.765 so from molecular perspective,

41 00:02:03.765 --> 00:02:05.251 and Almeida based the perspective.

42 00:02:05.251 --> 00:02:07.485 This is my research area.

43 00:02:07.485 --> 00:02:10.119 And research disease focused on cancer,

44 00:02:10.119 --> 00:02:12.233 so this is my email, and cellular phone number,

45 00:02:14.277 --> 00:02:16.021 we have another slide,

46 00:02:16.021 --> 00:02:16.854 talking about my my role in this program,

47 00:02:24.837 --> 00:02:27.405 this is my contacting for

48 00:02:27.405 --> 00:02:28.460 so you want me to fail sciences that become one

49 00:02:29.505 --> 00:02:31.260 of the dominant themes of the 21st century

50 00:02:31.260 --> 00:02:35.969 this century because of the growing global population

51 00:02:35.969 --> 00:02:40.969 and our limited resources and the strain ecosystem

52 00:02:41.294 --> 00:02:44.187 monetary challenges require aware

53 00:02:44.187 --> 00:02:47.985 train workforce and possessed the scientific skills.

54 00:02:47.985 --> 00:02:51.237 And then I think the tours to come from the emerging stress.

55 00:02:51.237 --> 00:02:53.175 So we need to learn something, but again

56 00:02:53.175 --> 00:02:54.612 that's the purpose of the cost we design to

57 00:02:54.612 --> 00:02:59.612 to fit the requirement off of these challenges

58 00:03:02.411 --> 00:03:05.342 because through important the national Institute

59 00:03:05.342 --> 00:03:09.680 of environmental health sciences, and yet

60 00:03:09.680 --> 00:03:11.217 as one of the major Institute

61 00:03:11.217 --> 00:03:14.621 NIH and also world health organization WHO

62 00:03:14.621 --> 00:03:18.087 have launched collaborating center

63 00:03:18.087 --> 00:03:23.030 to investigate many environmental health science,

64 00:03:23.030 --> 00:03:24.780 concerns, for example

65 00:03:26.143 --> 00:03:27.180 on our children's environmental health science

66 00:03:27.180 --> 00:03:28.870 that could be impacted

67 00:03:29.883 --> 00:03:32.080 by environmental exposures and the Columbia changes and the

68 00:03:32.080 --> 00:03:35.787 and the human health and the indoor air pollutions

69 00:03:35.787 --> 00:03:37.675 including other productions from the water

70 00:03:37.675 --> 00:03:42.675 or the pollution is also so that's the important

71 00:03:42.786 --> 00:03:44.970 off the mountain fail sciences, probably.

72 00:03:44.970 --> 00:03:48.359 That's the one for the reason you, you take the front

73 00:03:48.359 --> 00:03:52.420 of the house to check, but this is the three calls us.

74 00:03:52.420 --> 00:03:54.120 We put together.

75 00:03:54.120 --> 00:03:58.360 It's very unique accurately for 12 calls.

76 00:03:58.360 --> 00:04:01.930 So we combine to our professors

77 00:04:01.930 --> 00:04:06.920 their expertise to enhance the content

78 00:04:06.920 --> 00:04:09.030 and health of these calls us, we them with the first one

79 00:04:09.030 --> 00:04:12.133 we first caused you to support your assessment.

80 00:04:12.133 --> 00:04:17.133 So we all exposed to different chemical, biological,

81 00:04:18.050 --> 00:04:22.961 physiological, environmental agents doing our daily life.

82 00:04:22.961 --> 00:04:25.172 But these calls were provided tours

83 00:04:25.172 --> 00:04:27.841 to assess environmental stressor

84 00:04:27.841 --> 00:04:30.410 in conquer the indoor or outdoor

85 00:04:30.410 --> 00:04:32.290 and occupational environment.

86 00:04:32.290 --> 00:04:35.580 And there's review masters for evaluating the quantitative

87 00:04:35.580 --> 00:04:38.906 of the exposure data for you.

88 00:04:38.906 --> 00:04:42.472 Then pull the air pollution, the water contamination.

89 00:04:42.472 --> 00:04:45.140 So what's the best way to assess them

90 00:04:45.140 --> 00:04:48.972 and how to collect the quality data for research purpose.

91 00:04:48.972 --> 00:04:51.530 I think these are the first the costs

92 00:04:52.470 --> 00:04:55.540 that's given the concept is that a lot

93 00:04:55.540 --> 00:04:59.852 of diseases associated with you can support you

94 00:04:59.852 --> 00:05:02.004 but this is the pure epidemiological approach.

95 00:05:02.004 --> 00:05:04.600 We've tried to find association

96 00:05:04.600 --> 00:05:06.952 between exposure and the disease or other Phil's outcomes

97 00:05:06.952 --> 00:05:10.290 making a connection

98 00:05:10.290 --> 00:05:14.760 by the water tours available for exposure assessment

99 00:05:14.760 --> 00:05:17.060 but still then we can say the how to apply the

100 00:05:18.687 --> 00:05:21.040 latest epidemiological and toxicological research

101 00:05:21.040 --> 00:05:22.840 to their own work and the project.

102 00:05:22.840 --> 00:05:26.550 So after this course, that's the initial part.

103 00:05:26.550 --> 00:05:31.060 So we have two professors teaching.

104 00:05:31.060 --> 00:05:33.960 These costs, professor Nico diesel.

105 00:05:33.960 --> 00:05:37.280 She is a pro, especially the professor I would department.

106 00:05:37.280 --> 00:05:39.920 So her expertise is in the field

107 00:05:39.920 --> 00:05:42.760 of risk assessment and the methodology methodology.

108 00:05:42.760 --> 00:05:47.307 And also we have professor crystal plate.

109 00:05:47.307 --> 00:05:52.307 Her expertise is in the chemical and environmental engineer

110 00:05:53.420 --> 00:05:58.150 and she developed aware wearable Ben Reese

111 00:05:58.150 --> 00:06:02.690 the ban to collect the environmental exposures

112 00:06:02.690 --> 00:06:03.970 then analyze this.

113 00:06:03.970 --> 00:06:06.180 I mean the deaf people could carry this again

114 00:06:06.180 --> 00:06:07.900 individualize the exposure data.

115 00:06:07.900 --> 00:06:12.900 So they provide both of them were providing expertise

116 00:06:12.960 --> 00:06:17.960 for the methodology and the four data connecting real data

117 00:06:19.477 --> 00:06:20.833 to environmental exposures.

118 00:06:22.990 --> 00:06:26.325 That's the first, first cost we put together.

119 00:06:26.325 --> 00:06:29.966 But if we consider the association

120 00:06:29.966 --> 00:06:33.277 between exposure and the disease

121 00:06:33.277 --> 00:06:35.369 so what's in the middle, that's the black box.

122 00:06:35.369 --> 00:06:39.214 So the second the cost will help us to

123 00:06:39.214 --> 00:06:40.850 break this black box to see what specific hazard

124 00:06:40.850 --> 00:06:44.726 or exposure agents in this black box that could

125 00:06:44.726 --> 00:06:49.726 help us explain the observed association

126 00:06:53.120 --> 00:06:56.122 between exposure and entities.

127 00:06:56.122 --> 00:07:00.420 So I learned the foundation for understanding our role

128 00:07:00.420 --> 00:07:04.123 of toxic cottage in public health protection was a focus

129 00:07:04.123 --> 00:07:07.690 on 21st century techniques

130 00:07:07.690 --> 00:07:11.240 and the challenges that the new technology students learn

131 00:07:11.240 --> 00:07:14.857 for hazard identification, but simply why be introduced

132 00:07:14.857 --> 00:07:18.160 to basic principles of toxicology.

133 00:07:18.160 --> 00:07:21.500 If we can have a dose response mechanisms of toxicity

134 00:07:21.500 --> 00:07:24.324 and the standard of defense instead of a response

135 00:07:24.324 --> 00:07:27.790 but these all in this black box

136 00:07:27.790 --> 00:07:31.230 between exposure and the human diseases

137 00:07:31.230 --> 00:07:33.743 and then they move on to advanced topics

138 00:07:33.743 --> 00:07:37.690 then how we use these tours for study early life

139 00:07:37.690 --> 00:07:40.290 or one a bit at a low level exposure

140 00:07:40.290 --> 00:07:42.928 to mixtures and the system biology approaches

141 00:07:42.928 --> 00:07:45.430 and the green chemistry solutions

142 00:07:45.430 --> 00:07:49.160 and the problem presented by chemicals that are common

143 00:07:49.160 --> 00:07:52.223 in consumer products and the building environment.

144 00:07:53.960 --> 00:07:56.820 So Wells together to offer our professors

145 00:07:56.820 --> 00:08:00.485 the teachers cost professional part.

146 00:08:00.485 --> 00:08:01.573 And that's another thing.

147 00:08:04.140 --> 00:08:06.838 Yes, Hey, here's the final off green chemistry

148 00:08:06.838 --> 00:08:08.650 but probably you all know what's green chemistry.

149 00:08:08.650 --> 00:08:11.892 Lastly, we build our product to use in one little friend

150 00:08:11.892 --> 00:08:13.823 that chemical, then you run with a friend today.

151 00:08:13.823 --> 00:08:17.360 Then now it's just with our environment.

152 00:08:17.360 --> 00:08:18.842 We also have our profile.

153 00:08:18.842 --> 00:08:23.842 I will department here, professor I met his name was Ella.

154 00:08:28.870 --> 00:08:31.030 He's the senior toxicologist.

155 00:08:31.030 --> 00:08:33.541 I mean with expertise in this field

156 00:08:33.541 --> 00:08:35.270 the leading toxicologist in the field.

157 00:08:35.270 --> 00:08:40.110 So both of them will provide the fundamental principles

158 00:08:41.410 --> 00:08:43.940 of the different tours that students can use.

159 00:08:43.940 --> 00:08:48.215 People can use for hazard identification, but these

160 00:08:48.215 --> 00:08:50.903 the second and cost be able to

161 00:08:50.903 --> 00:08:53.761 upon the first one of the exposure and the disease Carnation

162 00:08:53.761 --> 00:08:58.761 and the water towards can use to identify specific hazard

163 00:08:58.790 --> 00:09:00.673 between exposure and the disease.

164 00:09:06.940 --> 00:09:10.071 So the third cost we put together that risk assessment

165 00:09:10.071 --> 00:09:14.520 and the policy, these calls were introduced the

166 00:09:14.520 --> 00:09:16.810 methodology interpretation application

167 00:09:16.810 --> 00:09:19.070 on the communication surrounding the use

168 00:09:19.070 --> 00:09:21.510 of visit assessment in poppy house.

169 00:09:21.510 --> 00:09:23.560 So students were gaining an understanding

170 00:09:23.560 --> 00:09:25.300 of how toxicology information

171 00:09:25.300 --> 00:09:28.230 on hotter than a dose response is incorporated.

172 00:09:28.230 --> 00:09:31.460 We exposing information to predict the house risk

173 00:09:31.460 --> 00:09:34.587 for why the variety of populations and also students

174 00:09:34.587 --> 00:09:36.920 the bathroom visit assessment

175 00:09:36.920 --> 00:09:39.263 for real world exposure issues.

176 00:09:41.810 --> 00:09:45.080 So after we know about specific exposures

177 00:09:45.080 --> 00:09:47.990 and the know about some detailed chemical

178 00:09:47.990 --> 00:09:52.990 a hazard or Asian that could then could expose you and

179 00:09:54.310 --> 00:09:57.580 and the human population and the disease outcome.

180 00:09:57.580 --> 00:10:00.350 So the next job we should do is that what's

181 00:10:00.350 --> 00:10:03.900 the policy we should put together

182 00:10:03.900 --> 00:10:08.900 for policy decision making, but again, risk management

183 00:10:09.460 --> 00:10:12.776 also the policy maker to make decisions.

184 00:10:12.776 --> 00:10:15.700 So this work gave us some idea

185 00:10:15.700 --> 00:10:18.430 about what information we should have put together

186 00:10:18.430 --> 00:10:20.420 to present to the policy maker

187 00:10:20.420 --> 00:10:23.880 and the involved with the English risk of management and

188 00:10:24.750 --> 00:10:27.490 and the policy and public health policy.

189 00:10:27.490 --> 00:10:31.117 So we have professor Gary Ginsburg.

190 00:10:31.117 --> 00:10:34.070 So he's also the director of the center

191 00:10:34.070 --> 00:10:37.440 for environment health in New York state department

192 00:10:38.796 --> 00:10:40.517 of health, who he has tons of experience

193 00:10:40.517 --> 00:10:44.045 with policy environmental policy, and also how

194 00:10:44.045 --> 00:10:47.455 to interpret the data collected the farm research

195 00:10:47.455 --> 00:10:49.193 from different research.

196 00:10:50.418 --> 00:10:52.590 But most of the time we have to conduct a multiple

197 00:10:53.720 --> 00:10:56.450 research project to confirm exposure

198 00:10:56.450 --> 00:11:00.090 and the disease relationship, the what information they

199 00:11:00.090 --> 00:11:02.990 what are important for the fullest policy makers.

200 00:11:02.990 --> 00:11:07.230 So these are these sweet calls us give a different

201 00:11:07.230 --> 00:11:09.790 perspective of how we approach environmental related

202 00:11:09.790 --> 00:11:11.243 to the issue.

203 00:11:13.819 --> 00:11:15.469 Okay I think firstly, these days.

204 00:11:22.800 --> 00:11:26.520 Okay in addition to these three courses

205 00:11:26.520 --> 00:11:31.520 but students can also get access to all our faculty members.

206 00:11:31.613 --> 00:11:35.170 I know that they also go to site visit.

207 00:11:35.170 --> 00:11:37.693 You can have in-person meeting.

208 00:11:37.693 --> 00:11:41.673 We saw were a faculty member, but you can always check

209 00:11:41.673 --> 00:11:46.673 out our website to identify the faculty with research issues

210 00:11:48.400 --> 00:11:51.760 or with resource areas that fit your interests, you fit.

211 00:11:51.760 --> 00:11:55.030 We are, you you're very welcome to contact them.

212 00:11:55.030 --> 00:11:57.470 The research expertise of our EHS faculty.

213 00:11:57.470 --> 00:11:59.657 It covers a number of few if we can, some off of them.

214 00:11:59.657 --> 00:12:01.603 And we are then at the end

215 00:12:01.603 --> 00:12:05.676 we already talked about that's the resource area

216 00:12:05.676 --> 00:12:07.754 of the course instructor framework.

217 00:12:07.754 --> 00:12:09.530 But in addition to those

218 00:12:09.530 --> 00:12:12.280 we have climate and energy impact on sales

219 00:12:13.487 --> 00:12:18.056 where people working on climate change and human health.

220 00:12:18.056 --> 00:12:19.940 We also have faculty member

221 00:12:19.940 --> 00:12:23.080 we expertise in developmental orange of human diseases.

222 00:12:23.080 --> 00:12:25.313 So for early life exposures are so important

223 00:12:25.313 --> 00:12:29.342 that as a risk predictor for later life diseases

224 00:12:29.342 --> 00:12:34.342 and the green chemistry, we already talk about understanding

225 00:12:35.300 --> 00:12:37.817 and overcoming environmental health disparities.

226 00:12:37.817 --> 00:12:42.817 We have also people work on novel approaches

227 00:12:42.870 --> 00:12:45.670 to assessing environmental exposures and early biomarker

228 00:12:47.256 --> 00:12:49.960 of effect the systematic system biology approaches.

229 00:12:49.960 --> 00:12:52.213 That's why they use among seven welfare.

230 00:12:53.941 --> 00:12:55.423 So we're all following faculty groups.

231 00:12:56.750 --> 00:13:00.211 And also we use this tours to apply these tours

232 00:13:00.211 --> 00:13:02.830 in the major human diseases

233 00:13:02.830 --> 00:13:05.660 including cancer, heart disease

234 00:13:05.660 --> 00:13:08.863 and also these days than the Corona virus COVID-19.

235 00:13:14.863 --> 00:13:18.020 Okay, so during the pandemic, we have a lot of experience

236 00:13:18.020 --> 00:13:20.880 with online teaching, but also online research

237 00:13:21.930 --> 00:13:25.320 but you're well, very welcome to contact our faculty member

238 00:13:25.320 --> 00:13:28.109 to see whether you want to participate in their

239 00:13:28.109 --> 00:13:32.480 or know more about the research, a specific topic

240 00:13:32.480 --> 00:13:34.423 or get involved in their research.

241 00:13:35.519 --> 00:13:37.300 Probably we can, we can develop something for you too.

242 00:13:37.300 --> 00:13:39.910 This would be working with it, gained some experience

243 00:13:39.910 --> 00:13:41.710 involved in a real research setting.

244 00:13:45.580 --> 00:13:48.190 So as a track quality, neither.

245 00:13:48.190 --> 00:13:52.410 So my though is to help support attract development

246 00:13:52.410 --> 00:13:53.860 and review, get feedback.

247 00:13:53.860 --> 00:13:56.240 Pharma student investigator, Rob, as a bridge

248 00:13:56.240 --> 00:14:00.493 between a student and teaching faculty and we've

249 00:14:01.875 --> 00:14:05.330 cost evaluation, supporting instructors to improve

250 00:14:05.330 --> 00:14:07.860 with their counselors or the cover something you really need

251 00:14:07.860 --> 00:14:12.482 in also, I can provide a student academic

252 00:14:12.482 --> 00:14:14.560 and career mentoring for them.

253 00:14:14.560 --> 00:14:19.560 If you want to know more about the specific research

254 00:14:21.030 --> 00:14:25.240 topic can help you to connect to a wildfire faculty member.

255 00:14:25.240 --> 00:14:28.420 And it's upon identification of capstone project

256 00:14:29.521 --> 00:14:31.860 before the research all fails Easters or

257 00:14:35.888 --> 00:14:37.170 for any project you are interested, I think we can help to

258 00:14:44.076 --> 00:14:46.568 to make the connections.

259 00:14:46.568 --> 00:14:47.668 So that very brief being sure that I'm sharing

260 00:14:47.668 --> 00:14:48.501 about you mom know how science says

261 00:14:49.810 --> 00:14:52.421 about the three courses we'll put together

262 00:14:52.421 --> 00:14:54.720 About other results.

263 00:14:54.720 --> 00:14:59.720 Tonight is also our whole department is open to all for you

264 00:15:00.010 --> 00:15:02.583 and about my role as the coordinator.

265 00:15:03.507 --> 00:15:04.360 Thank you.

266 00:15:04.360 --> 00:15:05.210 And any questions

267 00:15:30.800 --> 00:15:31.633 - Are there?

268 00:15:31.633 --> 00:15:33.172 No, no questions at all.

269 00:15:33.172 --> 00:15:34.740 This is, you know, for you all, any questions you have

270 00:15:34.740 --> 00:15:38.640 about the courses, the track, the kind of combination

271 00:15:38.640 --> 00:15:41.290 of courses with other tracks, anything that'll be helpful.

272 00:15:41.290 --> 00:15:44.390 And thank you, Reynolds are freezing the chat

273 00:15:44.390 --> 00:15:46.320 feel free to use the chat or raise hand

274 00:15:46.320 --> 00:15:49.652 or just to kind of turn your camera or your mic on

275 00:15:49.652 --> 00:15:52.823 - This, off the slides so we could see each other.

276 00:15:56.450 --> 00:15:57.670 - So the question is

277 00:15:57.670 --> 00:16:01.973 are there tours provided to labs where work is performed?

278 00:16:01.973 --> 00:16:06.973 Not, I mean, from an emissions perspective, not really.

279 00:16:09.011 --> 00:16:11.671 We have a campus tour that will be posted online

280 00:16:11.671 --> 00:16:14.620 within the next probably two weeks.

281 00:16:14.620 --> 00:16:16.763 That does show a little bit

282 00:16:16.763 --> 00:16:20.060 of the inside of some of our labs, but there are hundreds

283 00:16:20.060 --> 00:16:23.930 of faculty research projects and labs on campus.

284 00:16:23.930 --> 00:16:26.843 It's hard to kind of capture them all in one sort of tour.

285 00:16:27.722 --> 00:16:30.940 And unfortunately at this point, campus is not open

286 00:16:30.940 --> 00:16:33.940 to external visitors, so we can't have kind of live tours

287 00:16:33.940 --> 00:16:36.720 but I don't know if there's kind of another

288 00:16:36.720 --> 00:16:39.327 anything else you can think of that would be helpful

289 00:16:39.327 --> 00:16:42.040 for kind of tours of labs where work is performed.

290 00:16:42.040 --> 00:16:44.000 - Well, I know this, our professor Paul,

291 00:16:44.000 --> 00:16:45.410 another test is here.

292 00:16:45.410 --> 00:16:48.501 I think Paul, do you have anything to add

293 00:16:48.501 --> 00:16:51.420 - Or a pleasing?

294 00:16:51.420 --> 00:16:52.440 Some of my apologies

295 00:16:52.440 --> 00:16:55.550 I had a little trouble linking onto the zoom link.

296 00:16:55.550 --> 00:17:00.320 My, but I, I just wanted to say one thing specifically

297 00:17:00.320 --> 00:17:05.320 about the, the tours that as, as we transition

298 00:17:06.370 --> 00:17:11.370 to increasingly opening up our, our labs, I'd be more

299 00:17:11.422 --> 00:17:16.080 than happy to engage people and, and coming through our

300 00:17:16.080 --> 00:17:20.823 our labs and, and trying to even do it virtually if you

301 00:17:20.823 --> 00:17:24.811 if you wish to contact me directly

302 00:17:24.811 --> 00:17:29.811 or through or through yarn or, or, or admissions.

303 00:17:30.650 --> 00:17:34.374 So I'm always happy to do whatever we can to

304 00:17:34.374 --> 00:17:36.730 give you a glimpse into the, the

305 00:17:36.730 --> 00:17:41.730 the real world, real world of, of our laboratories.

306 00:17:42.957 --> 00:17:45.110 There's something that I just wanted to add.

307 00:17:45.110 --> 00:17:49.173 If I, if I may professor Zhou, I just wanted to say

308 00:17:52.727 --> 00:17:53.890 I thought that the description of the

309 00:17:53.890 --> 00:17:56.794 of the program was, was really wonderful.

310 00:17:56.794 --> 00:17:58.922 And the only thing I'd add

311 00:17:58.922 --> 00:18:03.406 to it was that the way that this program was, was built

312 00:18:03.406 --> 00:18:07.662 the way that it thought through was thought

313 00:18:07.662 --> 00:18:11.530 through was to identify the essence of what a

314 00:18:11.530 --> 00:18:15.040 a student would want to know would need to

315 00:18:15.040 --> 00:18:19.492 know the essentials of exposure, hazard risk

316 00:18:19.492 --> 00:18:24.492 those things that are yeah, the, the, the distillation

317 00:18:25.240 --> 00:18:29.390 of those key principles, those key fundamentals

318 00:18:29.390 --> 00:18:31.080 so that they can be applied.

319 00:18:31.080 --> 00:18:32.920 And then as we said, opening

320 00:18:32.920 --> 00:18:35.290 up those other opportunities to interact

321 00:18:35.290 --> 00:18:38.191 with the wide range of faculties and resources at Yale.

322 00:18:38.191 --> 00:18:40.950 So that's what it is.

323 00:18:40.950 --> 00:18:43.040 It's, it's the essence

324 00:18:43.040 --> 00:18:45.290 of what you would want to know on this topic.

325 00:18:55.270 --> 00:18:57.071 - Okay. Thank you for that kind of continue to

326 00:18:57.071 --> 00:18:59.920 or additional information

327 00:18:59.920 --> 00:19:01.700 about the track that's really helpful

328 00:19:01.700 --> 00:19:04.356 and I'm glad you could join us as well

329 00:19:04.356 --> 00:19:06.530 so that students can meet as many faculty members

330 00:19:06.530 --> 00:19:09.372 and program team members as possible.

331 00:19:09.372 --> 00:19:12.133 Are there any other questions at this point?

332 00:19:13.428 --> 00:19:16.603 - Hi.

333 00:19:16.603 --> 00:19:18.172 - Hi.

334 00:19:18.172 --> 00:19:20.103 - Can you see me?

335 00:19:22.315 --> 00:19:26.180 Thank you so much for this wonderful presentation.

336 00:19:26.180 --> 00:19:31.180 I have a question about the first course in the track

337 00:19:31.900 --> 00:19:34.580 and I wanted to see if it's built

338 00:19:34.580 --> 00:19:39.393 on the elementary introductory epidemiology course.

339 00:19:44.360 --> 00:19:46.470 - I think there'll be some overlap

340 00:19:46.470 --> 00:19:49.480 some better concept of stay the same, right?

341 00:19:49.480 --> 00:19:52.170 I mean, I think epi designed a pre-approach

342 00:19:52.170 --> 00:19:55.370 EPU protocols where the similar

343 00:19:55.370 --> 00:19:59.110 but the work to focused on your mental perspective.

344 00:19:59.110 --> 00:20:02.370 So how we use these tours for this assessment

345 00:20:02.370 --> 00:20:05.223 is going to be lying different epi design.

346 00:20:06.269 --> 00:20:09.190 I think that they do the overlap, but again

347 00:20:09.190 --> 00:20:11.040 the focus will be a little different.

348 00:20:15.057 --> 00:20:17.153 - Thank you so much.

349 00:20:33.727 --> 00:20:34.828 - Do you have any, I can.

350 00:20:34.828 --> 00:20:36.111 So there's another question to chat, Dr.

351 00:20:36.111 --> 00:20:39.263 can you speak more about your work on green chemistry?

352 00:20:41.090 --> 00:20:44.680 - Sure. I'm always happy to, I, you know, I talk so much

353 00:20:44.680 --> 00:20:46.700 about green chemistry that people are usually

354 00:20:46.700 --> 00:20:49.720 asking not to talk so much on green chemistry.

355 00:20:49.720 --> 00:20:53.292 So I'm always happy to accept that invitation.

356 00:20:53.292 --> 00:20:57.640 So for those of you who don't know what green chemistry is

357 00:20:57.640 --> 00:21:02.640 it basically takes this concept of the substances that make

358 00:21:02.700 --> 00:21:05.840 up our society and our economy, everything that we see touch

359 00:21:05.840 --> 00:21:07.950 and feel pretty much as a chemical.

360 00:21:07.950 --> 00:21:12.950 So when we think about, Oh, a chemical is something special

361 00:21:13.681 --> 00:21:15.811 or specific and produced by the chemical industry.

362 00:21:15.811 --> 00:21:20.070 Now we're surrounded by chemicals and we know

363 00:21:20.070 --> 00:21:22.930 that chemicals have given us a tremendous amount

364 00:21:22.930 --> 00:21:25.780 of function, but we also know

365 00:21:25.780 --> 00:21:28.140 that they've brought about a tremendous amount

366 00:21:29.845 --> 00:21:32.040 of hazard and risk and a negative consequences.

367 00:21:32.040 --> 00:21:34.470 And so what green chemistry is all about

368 00:21:34.470 --> 00:21:39.310 in its essence is how do you maintain all of the function

369 00:21:39.310 --> 00:21:40.680 all of the performance, all

370 00:21:40.680 --> 00:21:44.610 of the near technological miracles that chemicals

371 00:21:44.610 --> 00:21:46.170 and chemistry has given us

372 00:21:47.120 --> 00:21:50.060 while eliminating those adverse consequences.

373 00:21:50.060 --> 00:21:52.466 So carcinogens and neurotoxins

374 00:21:52.466 --> 00:21:56.737 endocrine disruption, environmental pollutants.

375 00:21:56.737 --> 00:21:59.340 And so it's all about the design

376 00:21:59.340 --> 00:22:02.130 of the next generation products and processes.

377 00:22:02.130 --> 00:22:04.680 And so we have a center for green chemistry

378 00:22:04.680 --> 00:22:08.370 green engineering here touches on a wide range

379 00:22:08.370 --> 00:22:10.189 of different applications of green chemistry

380 00:22:10.189 --> 00:22:15.189 and everything from energy to consumer products, cosmetics

381 00:22:15.600 --> 00:22:19.800 building materials, and architecture, and on and on.

382 00:22:19.800 --> 00:22:24.800 So as I, as you can tell, I could go on for a, well

383 00:22:25.270 --> 00:22:27.580 at least a whole semester about this, if, if you'd let me

384 00:22:27.580 --> 00:22:29.543 but I probably ought to stop there.

385 00:22:43.013 --> 00:22:44.480 - Any other questions

386 00:22:49.034 --> 00:22:50.970 - You know, as much as I said, I was going to stop

387 00:22:50.970 --> 00:22:53.830 I'm going to add one or two more sentences.

388 00:22:53.830 --> 00:22:57.900 So I get to co-teach the, the course on hazard.

389 00:22:57.900 --> 00:23:01.510 And we think about hazard perhaps too often

390 00:23:02.972 --> 00:23:04.892 as just the way things are.

391 00:23:04.892 --> 00:23:08.188 It's just the nature of things, but we dive into hazard

392 00:23:08.188 --> 00:23:12.270 not just understanding that things are hazardous

393 00:23:12.270 --> 00:23:14.979 but why they are hazardous the underlying physical

394 00:23:14.979 --> 00:23:19.230 chemical properties of what makes us substance hazardous

395 00:23:19.230 --> 00:23:22.443 what makes it allowed to get into our body.

396 00:23:22.443 --> 00:23:24.452 It would be in the adjusted cross

397 00:23:24.452 --> 00:23:26.620 membranes caused those kinds of problems.

398 00:23:26.620 --> 00:23:29.390 And we want to get that deep level understanding

399 00:23:29.390 --> 00:23:32.870 so we can design new things to be different.

400 00:23:32.870 --> 00:23:36.490 So that's why understanding hazard is so rather

401 00:23:36.490 --> 00:23:40.030 than just simply protecting ourselves with masks

402 00:23:40.030 --> 00:23:43.260 and respirators and personal protective gear and, and

403 00:23:43.260 --> 00:23:46.120 and saying always use in a well area.

404 00:23:46.120 --> 00:23:48.790 Instead, we can design things

405 00:23:48.790 --> 00:23:51.640 so that they are intrinsically less hazardous.

406 00:23:51.640 --> 00:23:55.486 And so that's, that's the perspective that we bring to

407 00:23:55.486 --> 00:23:57.516 to that course and throughout the program.

408 00:23:57.516 --> 00:24:00.371 - I think that your work is a great example

409 00:24:00.371 --> 00:24:05.371 of really the interdisciplinary perspectives you get

410 00:24:06.104 --> 00:24:08.970 across the program here.

411 00:24:08.970 --> 00:24:12.240 I think, you know, that the EHS track and your work

412 00:24:12.240 --> 00:24:15.730 in green chemistry really highlights how

413 00:24:15.730 --> 00:24:20.468 the different schools and programs at Yale crossover a lot.

414 00:24:20.468 --> 00:24:22.277 And you're able to kind of bring

415 00:24:22.277 --> 00:24:25.408 in expertise from different areas across university and

416 00:24:25.408 --> 00:24:29.370 and how that isn't, you know, really, I guess, evident

417 00:24:29.370 --> 00:24:32.760 in our on-campus program, but still a great opportunity

418 00:24:32.760 --> 00:24:35.106 within the executive MPH online, that you're still able

419 00:24:35.106 --> 00:24:37.895 as a student in the program to engage

420 00:24:37.895 --> 00:24:42.895 with experts and scholars in these really, you know

421 00:24:43.600 --> 00:24:46.630 interdisciplinary areas of public health work.

422 00:24:46.630 --> 00:24:49.490 So we're glad that you are a part of the track

423 00:24:49.490 --> 00:24:52.748 and I'm part of the program and really highlighting that

424 00:24:52.748 --> 00:24:55.790 that true benefit of our MPH and the executive program.

425 00:24:55.790 --> 00:24:57.830 - Yeah, go ahead.

426 00:24:57.830 --> 00:24:58.985 Go ahead.

427 00:24:58.985 --> 00:25:01.706 - I was just going to say, thanks for bringing that up

428 00:25:01.706 --> 00:25:03.320 because that interdisciplinarity is key

429 00:25:03.320 --> 00:25:06.521 because the way that the school

430 00:25:06.521 --> 00:25:09.650 of public health, you know, coordinates, collaborates

431 00:25:09.650 --> 00:25:12.900 and builds with whether it be the school of engineering

432 00:25:12.900 --> 00:25:15.100 the school of architecture, the school of environment

433 00:25:15.100 --> 00:25:18.220 especially there's so many interconnections

434 00:25:18.220 --> 00:25:20.010 in order to bring about all

435 00:25:20.010 --> 00:25:22.930 of those positive consequences for public health.

436 00:25:22.930 --> 00:25:26.943 And that's what this, this program really emphasizes.

437 00:25:28.587 --> 00:25:33.587 - Yeah. Just add to Paul's point that the, the hardest

438 00:25:33.850 --> 00:25:37.469 identification involve some basic mechanistic studies

439 00:25:37.469 --> 00:25:40.610 but you can look at it, exposure assessment.

440 00:25:40.610 --> 00:25:42.740 They only give us association

441 00:25:42.740 --> 00:25:46.040 but we do not know whether these are causal association

442 00:25:47.173 --> 00:25:51.870 or just association with all the causal effect.

443 00:25:51.870 --> 00:25:54.100 So the sec that's a, but again

444 00:25:55.155 --> 00:25:56.673 we shouldn't need a good technology.

445 00:25:58.084 --> 00:25:58.917 You mean high quality data to conclude those

446 00:25:58.917 --> 00:26:01.750 but the second the cost, how do the identification

447 00:26:01.750 --> 00:26:04.100 like the doctor and ask the surgeons that we

448 00:26:04.100 --> 00:26:06.591 some biological mechanistic study

449 00:26:06.591 --> 00:26:11.591 we can pinpoint what chemicals to Pacific chemical evolved

450 00:26:11.850 --> 00:26:14.092 in these exposure disease association

451 00:26:14.092 --> 00:26:16.060 then concreter some call.

452 00:26:16.060 --> 00:26:19.710 So you fact, now we can bring this information

453 00:26:19.710 --> 00:26:23.135 to policy maker, for example

454 00:26:23.135 --> 00:26:24.997 one good example, the freedom there

455 00:26:25.948 --> 00:26:28.646 some contamination in the water, a certain area.

456 00:26:28.646 --> 00:26:29.720 Then we find some seeing this.

457 00:26:29.720 --> 00:26:34.370 Then just some policy maker can ask all the people

458 00:26:34.370 --> 00:26:35.560 leaving that area.

459 00:26:35.560 --> 00:26:38.374 They have to get some filter to clean up their water.

460 00:26:38.374 --> 00:26:41.851 So I think that's the sway different perspective

461 00:26:41.851 --> 00:26:45.288 put together can help us better address

462 00:26:45.288 --> 00:26:48.500 any environmental related issues with all this.

463 00:26:48.500 --> 00:26:49.750 So this hallway we design

464 00:26:51.917 --> 00:26:53.240 I think the reason I put these three cultures together

465 00:26:56.597 --> 00:26:57.865 - That's a great way to, to put it in.

466 00:26:57.865 --> 00:27:01.764 I would just add to that, that the philosophy of the

467 00:27:01.764 --> 00:27:05.240 of the program of the school

468 00:27:05.240 --> 00:27:08.480 of all of the professors that you'll interact

469 00:27:08.480 --> 00:27:11.720 with is that yes, we seek to

470 00:27:11.720 --> 00:27:15.228 to deeply understand these problems deeply, rigorously

471 00:27:15.228 --> 00:27:17.324 scientifically understand these problems, but

472 00:27:17.324 --> 00:27:21.542 the only reason to deeply understand a problem is to inform

473 00:27:21.542 --> 00:27:24.950 and empower it solution.

474 00:27:24.950 --> 00:27:28.180 And so how we take that deep level understanding

475 00:27:28.180 --> 00:27:31.570 and that's what we're teaching you is the essence

476 00:27:31.570 --> 00:27:32.680 of how to understand those problems

477 00:27:32.680 --> 00:27:36.260 in order to inform and empower public health solution.

478 00:27:36.260 --> 00:27:38.670 So I think that that's, that's really key

479 00:27:38.670 --> 00:27:41.620 and that's the real power of how this program was designed.

480 00:27:48.111 --> 00:27:51.653 - Well, I'm not seeing any other questions

481 00:27:51.653 --> 00:27:55.010 so I wanna thank everyone for joining us today.

482 00:27:55.010 --> 00:27:57.530 Thank you to our faculty members and program team for being

483 00:27:57.530 --> 00:27:59.892 on with us to talk a little bit more about the program.

484 00:27:59.892 --> 00:28:01.625 As I mentioned

485 00:28:01.625 --> 00:28:05.349 we have other open house events throughout the week.

486 00:28:05.349 --> 00:28:07.370 Definitely join us.

487 00:28:07.370 --> 00:28:09.120 Hi. Do you have a question to them?

488 00:28:11.824 --> 00:28:13.344 Go ahead.

489 00:28:13.344 --> 00:28:15.163 Hi, I'm Tom Hayden, really excited.

490 00:28:16.360 --> 00:28:18.340 Just, I get excited hearing you talk

491 00:28:18.340 --> 00:28:19.980 about environmental health science.

492 00:28:19.980 --> 00:28:21.625 So it's, it's a good thing.

493 00:28:21.625 --> 00:28:23.250 I'm curious.

494 00:28:23.250 --> 00:28:25.689 I, so I'm struggling with, I, I really was focused

495 00:28:25.689 --> 00:28:28.544 on environmental health, sciences and informatics, and

496 00:28:28.544 --> 00:28:33.544 but then there are so many other classes too, and I

497 00:28:33.630 --> 00:28:34.760 I'm having a hard time

498 00:28:36.053 --> 00:28:37.470 with trying to figure out how to work, you know

499 00:28:39.982 --> 00:28:42.380 to get the most out of the experience as well as, and I'm

500 00:28:43.273 --> 00:28:44.760 I'm curious for the different

501 00:28:44.760 --> 00:28:46.898 in the environmental health sciences track

502 00:28:46.898 --> 00:28:50.356 are you able to take diff

503 00:28:50.356 --> 00:28:53.890 I know that some, like with informatics, it's kind of you

504 00:28:53.890 --> 00:28:56.650 each one builds upon the previous one.

505 00:28:56.650 --> 00:28:58.463 And so it'd be weird to jump.

506 00:28:59.780 --> 00:29:01.940 You can't jump into necessarily the third course

507 00:29:04.461 --> 00:29:06.691 because you didn't get the prior to

508 00:29:06.691 --> 00:29:10.676 or it might not be as easy to follow along

509 00:29:10.676 --> 00:29:12.725 with the third course as if you weren't in the previous.

510 00:29:12.725 --> 00:29:14.491 And so I'm curious with the EHS pro track

511 00:29:14.491 --> 00:29:17.040 is it possible to actually, you know, if I did the first

512 00:29:17.040 --> 00:29:18.627 and maybe the third or the second and the third

513 00:29:18.627 --> 00:29:20.752 or if I did, you know, or is it that they each, you know

514 00:29:20.752 --> 00:29:24.663 you need to take each one relate to get two, to do each one.

515 00:29:24.663 --> 00:29:27.170 I mean, if I wanted to do the third class

516 00:29:27.170 --> 00:29:30.783 do I need to take the previous two?

517 00:29:32.740 --> 00:29:34.451 - But again, my quick response is

518 00:29:34.451 --> 00:29:37.774 that these are three separate courses.

519 00:29:37.774 --> 00:29:41.627 The only independent is not just build upon another one.

520 00:29:41.627 --> 00:29:44.770 For example, all the tours, talk

521 00:29:44.770 --> 00:29:48.410 about the one us not to rely on the knowledge, but again

522 00:29:48.410 --> 00:29:50.829 the reason we talk about the

523 00:29:50.829 --> 00:29:52.830 why we putting all this together, we have scientific link

524 00:29:52.830 --> 00:29:55.763 the address, the question from different angle

525 00:29:55.763 --> 00:29:58.636 but the artists start with independent.

526 00:29:58.636 --> 00:30:00.803 The so you can take from one of us or the one

527 00:30:00.803 --> 00:30:03.210 cause we used to get management and policy

528 00:30:04.430 --> 00:30:06.463 but then you kept some question.

529 00:30:07.306 --> 00:30:08.603 You mind the, how we get this data.

530 00:30:10.216 --> 00:30:13.000 But again, that answer by first of course, right

531 00:30:13.000 --> 00:30:15.040 how we do this first design.

532 00:30:15.040 --> 00:30:16.140 But if we want to know

533 00:30:17.031 --> 00:30:18.510 about what is the specific chemical compound

534 00:30:18.510 --> 00:30:22.490 what tools people use to ping pong specific aging

535 00:30:22.490 --> 00:30:25.250 in these exposure is this association

536 00:30:25.250 --> 00:30:27.280 but that's the second cause of what a cover.

537 00:30:27.280 --> 00:30:32.280 So I think you can take, take this in different orders

538 00:30:33.740 --> 00:30:37.250 in random order, but based on your schedule, but again

539 00:30:37.250 --> 00:30:41.293 the underlying knowledge underlying link between this.

540 00:30:42.271 --> 00:30:43.104 But again, that's the hallway.

541 00:30:43.991 --> 00:30:45.220 They adjust the crushing from different perspective

542 00:30:48.427 --> 00:30:49.260 but again, you can take the sort of the one first to match.

543 00:30:50.585 --> 00:30:52.225 They're all second, I'm gonna take the second one.

544 00:30:52.225 --> 00:30:53.513 I don't think it doesn't any, any requirement.

545 00:30:54.576 --> 00:30:55.489 You have to take these

546 00:30:55.489 --> 00:30:56.920 in this order, but Paul, you, you, you

547 00:30:56.920 --> 00:30:59.410 you have any, any other suggestions?

548 00:30:59.410 --> 00:31:01.140 - Well, let me just say there there is

549 00:31:01.140 --> 00:31:03.810 and it's actually to be determined

550 00:31:03.810 --> 00:31:05.350 for environmental health sciences.

551 00:31:05.350 --> 00:31:09.446 There will be a specific order of the courses

552 00:31:09.446 --> 00:31:12.357 but I think your question Tom has to do with the

553 00:31:12.357 --> 00:31:16.020 the knowledge and skills that one would need

554 00:31:16.020 --> 00:31:18.566 as a prerequisite to take a course.

555 00:31:18.566 --> 00:31:20.700 So in the case of VHS

556 00:31:20.700 --> 00:31:23.150 I think it's fair to say as professors

557 00:31:23.150 --> 00:31:26.530 you said that, you know, you can take the third course

558 00:31:26.530 --> 00:31:28.670 in the sequence and benefit fully

559 00:31:28.670 --> 00:31:32.020 without taking the first two for this track.

560 00:31:32.020 --> 00:31:34.674 If you're interested in epidemiology, I would say, you know

561 00:31:34.674 --> 00:31:37.380 if you're going to be taking the third course

562 00:31:38.505 --> 00:31:41.008 in that sequence, advanced analytic methods and epi

563 00:31:41.008 --> 00:31:43.870 if you didn't have a very, very strong foundation

564 00:31:43.870 --> 00:31:46.470 in epidemiology and basic analytic methods

565 00:31:46.470 --> 00:31:49.490 it would be a very challenging experience for you.

566 00:31:49.490 --> 00:31:53.220 So the question of what you need as a prerequisite

567 00:31:53.220 --> 00:31:57.080 you know, as has been said, EHS, wouldn't be one of those

568 00:31:57.080 --> 00:32:00.926 in terms of physically, when you would take a course

569 00:32:00.926 --> 00:32:03.370 there will be a predefined sequencing

570 00:32:03.370 --> 00:32:05.770 of when you will be taking the courses.

571 00:32:05.770 --> 00:32:08.420 Now, one of the interesting things that I need to think

572 00:32:08.420 --> 00:32:10.360 about is that say you're interested

573 00:32:11.229 --> 00:32:14.160 in another course not to take it for credit or even audited

574 00:32:14.160 --> 00:32:17.310 but just to sort of sort of peek in and view some

575 00:32:17.310 --> 00:32:20.200 of the lectures just as sort of a one-off experience.

576 00:32:20.200 --> 00:32:22.670 You know, I think that's a good question

577 00:32:22.670 --> 00:32:24.985 that you didn't ask, but that one that I need to answer.

578 00:32:24.985 --> 00:32:26.970 So I will actually think

579 00:32:28.058 --> 00:32:30.087 about that and consult with my colleagues

580 00:32:30.087 --> 00:32:32.588 because I think there would be a benefit to sort of

581 00:32:32.588 --> 00:32:34.688 you know, having a key that you can unlock

582 00:32:35.628 --> 00:32:37.862 and you just watch a random video

583 00:32:37.862 --> 00:32:40.570 for your own interest in edification, not necessarily for

584 00:32:40.570 --> 00:32:42.593 credit or for the program sequencing.

585 00:32:45.150 --> 00:32:45.983 - Thank you.

586 00:32:45.983 --> 00:32:47.156 That sounds great.

587 00:32:47.156 --> 00:32:49.410 That's the question that I wish I asked that was, yeah

588 00:32:49.410 --> 00:32:50.243 thank you.

589 00:32:57.280 --> 00:33:00.045 - I don't necessarily have a question.

590 00:33:00.045 --> 00:33:02.386 I just wanted to say a few things

591 00:33:02.386 --> 00:33:03.760 things I wanted to thank you for this presentation.

592 00:33:03.760 --> 00:33:05.270 I was coming in, definitely

593 00:33:05.270 --> 00:33:09.830 with applying with settled on epidemiology track

594 00:33:09.830 --> 00:33:12.830 and I was having a hard time being overwhelmed

595 00:33:12.830 --> 00:33:15.380 with all these amazing options

596 00:33:15.380 --> 00:33:17.383 within the other three tracks.

597 00:33:22.662 --> 00:33:25.578 And I think now visiting these sort

598 00:33:25.578 --> 00:33:27.640 of informational sessions gave me a lot of clarity

599 00:33:28.630 --> 00:33:32.340 on the sup on how I want to supplement my education

600 00:33:32.340 --> 00:33:35.584 and my chosen track and epidemiology.

601 00:33:35.584 --> 00:33:40.370 And when it comes to new environmental health

602 00:33:40.370 --> 00:33:43.420 and the effects of environmental pollution pollutants

603 00:33:43.420 --> 00:33:46.616 on human health is rings very close to me

604 00:33:46.616 --> 00:33:50.460 because I was born slightly a few years

605 00:33:50.460 --> 00:33:55.460 before Chernobyl explosion in

606 00:33:56.240 --> 00:33:59.070 on the border of Ukraine and Belarus.

607 00:33:59.070 --> 00:34:02.510 I grew up in poster novel environment and it was, I mean

608 00:34:02.510 --> 00:34:04.510 everything was awful lives were governed

609 00:34:05.741 --> 00:34:10.100 by the often mass of the Chernobyl catastrophe.

610 00:34:10.100 --> 00:34:13.700 My family had resources to move away temporarily

611 00:34:13.700 --> 00:34:15.100 but we still had to come back

612 00:34:15.100 --> 00:34:17.940 because not all my family could move away.

613 00:34:17.940 --> 00:34:20.348 So, and I could, I kept coming

614 00:34:20.348 --> 00:34:24.561 back year after year and seeing sort of the damages.

615 00:34:24.561 --> 00:34:28.780 And even though it's almost been 40 years

616 00:34:28.780 --> 00:34:31.577 I think many substances have different half-life.

617 00:34:31.577 --> 00:34:34.830 So the scary part is

618 00:34:34.830 --> 00:34:37.400 that even 50 years there will be another

619 00:34:38.343 --> 00:34:41.460 some other element will be radioactive.

620 00:34:41.460 --> 00:34:45.180 And many of my friends, even

621 00:34:45.180 --> 00:34:48.230 though they Mo many of them moved away

622 00:34:48.230 --> 00:34:52.300 a relocated thyroid cancer followed down

623 00:34:52.300 --> 00:34:54.380 some got diagnosed here, you know

624 00:34:54.380 --> 00:34:56.790 years and years, decades after exposure.

625 00:34:56.790 --> 00:34:59.900 And I think it will be a huge loss

626 00:34:59.900 --> 00:35:03.480 for me not to take a class, you know

627 00:35:03.480 --> 00:35:08.480 in this track and to get a better understanding

628 00:35:10.540 --> 00:35:12.663 on the molecular level potentially.

629 00:35:13.557 --> 00:35:17.793 And, and yeah, I guess, to work with

630 00:35:23.869 --> 00:35:28.790 with all of you or to, to, to, to work with all of you.

631 00:35:28.790 --> 00:35:31.063 And I learned from you and

632 00:35:32.738 --> 00:35:35.493 and learn from your expertise in this field.

633 00:35:38.670 --> 00:35:40.700 - Well, if I could just say

634 00:35:40.700 --> 00:35:42.380 thank you so much for sharing that

635 00:35:42.380 --> 00:35:44.769 because one of the things that I just mentioned is

636 00:35:44.769 --> 00:35:49.769 that in classes that I, that I teach

637 00:35:50.408 --> 00:35:51.620 I also teach undergraduates

638 00:35:51.620 --> 00:35:56.620 the teaching about Chernobyl teaching, about Bhopal teaching

639 00:35:56.800 --> 00:36:00.529 about these things to them is it is a history lesson

640 00:36:00.529 --> 00:36:03.090 and that they have gotten so many

641 00:36:03.090 --> 00:36:07.470 of the lessons that we need to know, and we need to build

642 00:36:07.470 --> 00:36:12.470 into what we do that it's really important to use these

643 00:36:13.740 --> 00:36:15.450 these events, to understand

644 00:36:15.450 --> 00:36:18.720 you know, hazard risk, environmental exposures.

645 00:36:18.720 --> 00:36:21.110 I, I happen to have done a time

646 00:36:21.110 --> 00:36:24.000 in the government with president Obama and was in charge

647 00:36:24.000 --> 00:36:27.256 of the response to focus Shima the focus Shima meltdown.

648 00:36:27.256 --> 00:36:31.120 And so these things are very much high in our

649 00:36:33.158 --> 00:36:34.770 in our consciousness when we discuss these

650 00:36:36.174 --> 00:36:38.073 important environmental health issues.

651 00:36:44.620 --> 00:36:45.453 So thank you.

652 00:36:46.540 --> 00:36:47.373 - Thank you.

653 00:36:48.820 --> 00:36:51.378 It's amazing how it, I mean, how it

654 00:36:51.378 --> 00:36:54.221 how it is a history lesson, but it's, it's

655 00:36:54.221 --> 00:36:59.221 it's still a reality for the populations

656 00:36:59.921 --> 00:37:04.921 even though it's just not on our minds anymore.

657 00:37:05.128 --> 00:37:09.120 Yeah. I mean, I think the initially early

658 00:37:09.120 --> 00:37:12.808 in early years we had radiation safety class where

659 00:37:12.808 --> 00:37:16.565 we had to put gas masks on.

660 00:37:16.565 --> 00:37:21.565 And, but even then sort of for a really free really

661 00:37:23.050 --> 00:37:26.170 really young students as we were really young students

662 00:37:26.170 --> 00:37:28.610 it was already a laughing matter, you know

663 00:37:28.610 --> 00:37:31.710 because we were all laughing about, you know

664 00:37:31.710 --> 00:37:33.420 just basically how we

665 00:37:36.446 --> 00:37:37.940 how we look funny in this gas masks, right.

666 00:37:37.940 --> 00:37:41.723 More than what is protecting us from.

667 00:37:45.916 --> 00:37:49.700 - And, and let's, let's be, let's be honest about it

668 00:37:49.700 --> 00:37:51.670 the young generation of environmentalist.

669 00:37:51.670 --> 00:37:55.350 So, so, so concerned about how we respond to climate change

670 00:37:55.350 --> 00:37:56.970 that there'll be happy to say, well

671 00:37:56.970 --> 00:37:59.322 nuclear is the solution, and let's just go full into nuclear

672 00:37:59.322 --> 00:38:02.930 and just say, let's be thoughtful about these things.

673 00:38:02.930 --> 00:38:07.678 So having to provide that product context and

674 00:38:07.678 --> 00:38:11.420 and letting people know those, those important issues

675 00:38:11.420 --> 00:38:12.970 I'm so glad that you raised

676 00:38:14.109 --> 00:38:15.333 that because it's important to be thoughtful.

677 00:38:18.470 --> 00:38:19.680 - And I think, I mean

678 00:38:19.680 --> 00:38:23.050 in terms of Chernobyl is definitely could have been

679 00:38:23.050 --> 00:38:24.980 we could have learned a lot more

680 00:38:24.980 --> 00:38:27.830 than we are learning from it now.

681 00:38:27.830 --> 00:38:30.370 If the government was transparent, because

682 00:38:30.370 --> 00:38:35.370 I think the reason why people were forced to forget as soon

683 00:38:36.229 --> 00:38:39.649 as possible by not providing by

684 00:38:39.649 --> 00:38:42.820 by hiding the records, medical records, wow.

685 00:38:42.820 --> 00:38:47.170 Hundreds of thousands of medical records disappearing.

686 00:38:47.170 --> 00:38:51.920 And so that not, not so that the, that couldn't be being

687 00:38:52.987 --> 00:38:57.987 between a clear link between the environmental exposure

688 00:38:58.750 --> 00:39:02.258 and certain cancers, for instance

689 00:39:02.258 --> 00:39:03.840 or a certain birth defects.

690 00:39:03.840 --> 00:39:08.390 Definitely. I mean, even, I think it took a few days to

691 00:39:08.390 --> 00:39:11.129 even tell people we were playing outside.

692 00:39:11.129 --> 00:39:14.840 It rained in many places

693 00:39:14.840 --> 00:39:19.640 depending on where winds got went, and then the, they

694 00:39:19.640 --> 00:39:22.923 it was not the catastrophe wasn't announced for a few days.

695 00:39:34.760 --> 00:39:38.973 - Any other last questions, comments, topics of discussion.

696 00:39:44.340 --> 00:39:46.414 All right, thank you again to everyone.

697 00:39:46.414 --> 00:39:47.247 So much.

698 00:39:47.247 --> 00:39:49.395 We hope to connect with you

699 00:39:49.395 --> 00:39:53.817 in the coming weeks as always, we're here to help.

700 00:39:53.817 --> 00:39:56.020 So don't hesitate at all to reach

701 00:39:56.020 --> 00:39:56.910 out if you have questions, comments, concerns

702 00:39:56.910 --> 00:39:58.150 really anything you want to talk

703 00:39:58.150 --> 00:40:01.030 about in regards to the program.

704 00:40:01.030 --> 00:40:01.980 We are always here.

705 00:40:03.099 --> 00:40:04.810 I know almost all of you already, I've communicated

706 00:40:04.810 --> 00:40:07.360 with you have my contact information, but our office

707 00:40:07.360 --> 00:40:10.400 of admissions general contact is a great place to go

708 00:40:10.400 --> 00:40:13.819 and we can help direct you anywhere as needed.

709 00:40:13.819 --> 00:40:15.340 So thank you all again so much for your time

710 00:40:15.340 --> 00:40:16.450 and we hope you have a great rest of the afternoon.

711 00:40:16.450 --> 00:40:18.281 - Thank everyone

712 00:40:18.281 --> 00:40:20.503 - Thank you.