AbSciCon 2022

NASA Town Hall

Dr. Mary Voytek

May 16 · 6:30PM EDT

1
00:00:03,280 --> 00:00:06,950
so good evening everyone

2
00:00:12,150 --> 00:00:09,030
those of you who don't know me or have

3
00:00:13,430 --> 00:00:12,160
forgotten who i am i'm michael new i'm

4
00:00:15,430 --> 00:00:13,440
currently the deputy associate

5
00:00:17,830 --> 00:00:15,440
administrator for research

6
00:00:19,590 --> 00:00:17,840
in science mission directorate

7
00:00:21,269 --> 00:00:19,600
but before i was that

8
00:00:24,070 --> 00:00:21,279
i was the astrobiology discipline

9
00:00:25,910 --> 00:00:24,080
scientist for 15 years

10
00:00:27,910 --> 00:00:25,920
i got to say it's great to be back

11
00:00:29,429 --> 00:00:27,920
amongst astrobiologists it's really

12
00:00:31,029 --> 00:00:29,439
great to see so many

13
00:00:33,350 --> 00:00:31,039

familiar faces

14
00:00:36,069 --> 00:00:33,360
it's even more great to see so many new

15
00:00:38,630 --> 00:00:36,079
faces and i think that's

16
00:00:41,110 --> 00:00:38,640
always been something very

17
00:00:43,430 --> 00:00:41,120
rewarding to me about astrobiology is

18
00:00:44,709 --> 00:00:43,440
the constant flow of new people new

19
00:00:48,790 --> 00:00:44,719
ideas

20
00:00:54,229 --> 00:00:51,510
it's been two years more actually since

21
00:00:56,470 --> 00:00:54,239
we first last met outside of seattle in

22
00:01:00,150 --> 00:00:56,480
2019

23
00:01:03,430 --> 00:01:00,160
it's been quite a rough couple of years

24
00:01:05,109 --> 00:01:03,440
personally for some people

25
00:01:07,910 --> 00:01:05,119
as a community

26
00:01:13,270 --> 00:01:09,109
a nation

27
00:01:17,030 --> 00:01:15,590
in addition to the new faces i'm meeting

28
00:01:20,950 --> 00:01:17,040
uh there are some

29
00:01:23,190 --> 00:01:20,960
familiar faces that i will not see

30
00:01:25,590 --> 00:01:23,200
and i believe that they will live in our

31
00:01:28,149 --> 00:01:25,600
blessed memory and provide comfort in

32
00:01:32,310 --> 00:01:30,550
it's quite a future though

33
00:01:34,550 --> 00:01:32,320
lori glaze the division director from

34
00:01:36,390 --> 00:01:34,560
planetary science division will be

35
00:01:38,710 --> 00:01:36,400
telling you all about the really cool

36
00:01:41,990 --> 00:01:38,720
stuff coming up

37
00:01:47,190 --> 00:01:42,000
you know sample returns

38
00:01:52,230 --> 00:01:50,069

um mary wojtek the astrobiology senior

39
00:01:55,109 --> 00:01:52,240
scientist and lindsey hayes

40
00:01:56,950 --> 00:01:55,119
her deputy um send their regrets that

41
00:02:00,789 --> 00:01:56,960
they can't be here in person

42
00:02:04,630 --> 00:02:02,789
i think you guys got the worst part of

43
00:02:05,749 --> 00:02:04,640
the deal there but okay fine we can move

44
00:02:08,630 --> 00:02:05,759
on

45
00:02:10,790 --> 00:02:08,640
um and mary asked me since i'm doing

46
00:02:12,869 --> 00:02:10,800
this to give you guys a little brief

47
00:02:15,270 --> 00:02:12,879
overview of a couple of the things that

48
00:02:17,430 --> 00:02:15,280
smd the science mission directorate writ

49
00:02:19,750 --> 00:02:17,440
large is doing

50
00:02:21,910 --> 00:02:19,760
before we get on to the more planetary

51
00:02:24,070 --> 00:02:21,920
science division and then astrobiology

52
00:02:27,670 --> 00:02:24,080
program specific stuff so i'll stop

53
00:02:29,750 --> 00:02:28,470
so

54
00:02:32,470 --> 00:02:29,760
one of the things that we've been very

55
00:02:33,509 --> 00:02:32,480
interested in promoting in smd is high

56
00:02:35,350 --> 00:02:33,519
impact

57
00:02:37,830 --> 00:02:35,360
high risk research

58
00:02:40,070 --> 00:02:37,840
it was a priority in 2018 it is still a

59
00:02:41,670 --> 00:02:40,080
priority for us right now

60
00:02:44,070 --> 00:02:41,680
now it's important to notice when i say

61
00:02:44,949 --> 00:02:44,080
high risk i do not mean high technical

62
00:02:50,309 --> 00:02:44,959
risk

63
00:02:52,150 --> 00:02:50,319

my boss likes to sometimes call this

64
00:02:54,070 --> 00:02:52,160
reputational risk

65
00:02:55,990 --> 00:02:54,080
you're going to propose something that

66
00:02:58,550 --> 00:02:56,000
the panel may look at and go

67
00:03:01,110 --> 00:02:58,560
they said what

68
00:03:02,630 --> 00:03:01,120
so we've done a recent reanalysis of

69
00:03:04,550 --> 00:03:02,640
some data

70
00:03:06,470 --> 00:03:04,560
and we compared it to the debt analysis

71
00:03:08,949 --> 00:03:06,480
we did back in 2018.

72
00:03:10,149 --> 00:03:08,959
what we found is that it is absolutely

73
00:03:12,630 --> 00:03:10,159
still true

74
00:03:14,630 --> 00:03:12,640
that high-risk high-impact proposals

75
00:03:17,110 --> 00:03:14,640
form a very small fraction of the

76
00:03:19,830 --> 00:03:17,120
proposals actually submitted

77
00:03:21,030 --> 00:03:19,840
to the science mission directorate

78
00:03:23,589 --> 00:03:21,040
but

79
00:03:25,110 --> 00:03:23,599
those proposals are selected at a much

80
00:03:28,229 --> 00:03:25,120
much higher rate

81
00:03:31,190 --> 00:03:28,239
than all the other proposals we get

82
00:03:33,509 --> 00:03:31,200
so if you guys have a high intellectual

83
00:03:35,910 --> 00:03:33,519
risk high impact idea

84
00:03:38,869 --> 00:03:35,920
for a proposal and i'm sure everybody at

85
00:03:41,509 --> 00:03:38,879
absycon has at least one

86
00:03:43,430 --> 00:03:41,519
please consider sending it to nasa

87
00:03:45,750 --> 00:03:43,440
the odds of getting selected

88
00:03:47,910 --> 00:03:45,760

are higher than just sending in a

89
00:03:53,110 --> 00:03:47,920
routine

90
00:03:58,229 --> 00:03:55,589
deia diversity equity

91
00:04:00,949 --> 00:03:58,239
inclusion and accessibility is also

92
00:04:03,110 --> 00:04:00,959
another thing that we and smd have been

93
00:04:05,030 --> 00:04:03,120
focusing on for at least the last four

94
00:04:07,750 --> 00:04:05,040
or five years

95
00:04:10,309 --> 00:04:07,760
we've recognized that there's a real

96
00:04:12,229 --> 00:04:10,319
lack of diversity along all the axes of

97
00:04:15,270 --> 00:04:12,239
diversity

98
00:04:17,749 --> 00:04:15,280
in terms of both funded researchers and

99
00:04:19,909 --> 00:04:17,759
funded institutions

100
00:04:21,909 --> 00:04:19,919
we are in the process of introducing a

101
00:04:24,230 --> 00:04:21,919
whole portfolio of programs and

102
00:04:26,469 --> 00:04:24,240
approaches try to remedy this

103
00:04:28,390 --> 00:04:26,479
these include an expansion of our dual

104
00:04:31,030 --> 00:04:28,400
anonymous peer review program

105
00:04:33,350 --> 00:04:31,040
those of you may have read this dual

106
00:04:36,150 --> 00:04:33,360
anonymous peer review is a situation in

107
00:04:38,070 --> 00:04:36,160
which we do not let peer reviewers know

108
00:04:40,469 --> 00:04:38,080
who is proposing and what their

109
00:04:42,150 --> 00:04:40,479
institutions are

110
00:04:45,350 --> 00:04:42,160
until after they have decided on the

111
00:04:47,909 --> 00:04:45,360
scientific merit of a proposal

112
00:04:51,030 --> 00:04:47,919
this has been shown in other contexts to

113
00:04:52,230 --> 00:04:51,040

mitigate a number of biases

114
00:04:54,950 --> 00:04:52,240
we were also

115
00:04:56,790 --> 00:04:54,960
developed and employing codes of conduct

116
00:04:59,510 --> 00:04:56,800
for our peer reviewers

117
00:05:01,670 --> 00:04:59,520
for our program officers

118
00:05:03,510 --> 00:05:01,680
now for nasa-sponsored conferences like

119
00:05:06,230 --> 00:05:03,520
this one

120
00:05:09,189 --> 00:05:06,240
and we will soon be codifying

121
00:05:10,710 --> 00:05:09,199
a standardized code of conduct for both

122
00:05:14,070 --> 00:05:10,720
mission teams

123
00:05:18,070 --> 00:05:16,790
in addition to the codes of conduct

124
00:05:21,189 --> 00:05:18,080
we will be

125
00:05:26,070 --> 00:05:21,199
coming up with reasonable reporting

126
00:05:26,080 --> 00:05:30,070
implementation approaches

127
00:05:34,469 --> 00:05:32,310
we also are coming up with ways to try

128
00:05:36,310 --> 00:05:34,479
to increase our outreach to minority

129
00:05:39,270 --> 00:05:36,320
serving institutions and primarily

130
00:05:40,950 --> 00:05:39,280
undergraduate institutions

131
00:05:43,270 --> 00:05:40,960
what we found is that a rather small

132
00:05:44,950 --> 00:05:43,280
percentage of proposals we get come from

133
00:05:47,110 --> 00:05:44,960
these types of institutions however they

134
00:05:48,469 --> 00:05:47,120
are selected at about the same rate

135
00:05:51,430 --> 00:05:48,479
you'd expect

136
00:05:53,189 --> 00:05:51,440
so the big barrier is not in

137
00:05:54,390 --> 00:05:53,199
evaluating and selecting these types of

138
00:05:57,670 --> 00:05:54,400

proposals

139
00:05:59,430 --> 00:05:57,680
it is getting them in the first place

140
00:06:01,990 --> 00:05:59,440
part of that is we are creating

141
00:06:06,390 --> 00:06:02,000
something called the bridge program

142
00:06:08,710 --> 00:06:06,400
this will be a program to link minority

143
00:06:10,550 --> 00:06:08,720
serving and primarily undergraduate

144
00:06:11,350 --> 00:06:10,560
serving institutions

145
00:06:13,830 --> 00:06:11,360
to

146
00:06:16,629 --> 00:06:13,840
both big

147
00:06:18,629 --> 00:06:16,639
big research universities and

148
00:06:21,430 --> 00:06:18,639
nasa centers to diversify both the

149
00:06:23,350 --> 00:06:21,440
science workforce generally and nasa's

150
00:06:24,950 --> 00:06:23,360
workforce in particular

151
00:06:28,070 --> 00:06:24,960
there's a dear colleague letter that

152
00:06:29,430 --> 00:06:28,080
went out recently asking for people to

153
00:06:32,309 --> 00:06:29,440
volunteer

154
00:06:33,830 --> 00:06:32,319
to serve on our organizing committee for

155
00:06:35,350 --> 00:06:33,840
a couple of workshops we're going to be

156
00:06:37,110 --> 00:06:35,360
doing to try to hear

157
00:06:40,230 --> 00:06:37,120
from the community

158
00:06:42,309 --> 00:06:40,240
what they want in a bridge program

159
00:06:44,550 --> 00:06:42,319
if you're interested i do encourage you

160
00:06:45,749 --> 00:06:44,560
to send in your application we will be

161
00:06:47,510 --> 00:06:45,759
providing

162
00:06:49,830 --> 00:06:47,520
travel if there is any travel involved

163
00:06:52,070 --> 00:06:49,840

we'll be providing travel as well as

164
00:06:53,589 --> 00:06:52,080
generous honoraria

165
00:06:55,909 --> 00:06:53,599
and finally

166
00:06:57,589 --> 00:06:55,919
we are in the process smd of having a

167
00:06:59,430 --> 00:06:57,599
much greater presence at a variety of

168
00:07:02,550 --> 00:06:59,440
meetings like sacness national

169
00:07:04,550 --> 00:07:02,560
association of black physicists so on

170
00:07:06,710 --> 00:07:04,560
lori i know we'll tell you a little bit

171
00:07:07,830 --> 00:07:06,720
about some great work they're doing with

172
00:07:11,350 --> 00:07:07,840
the national association of black

173
00:07:16,150 --> 00:07:14,309
we have a new forthcoming program icor

174
00:07:19,670 --> 00:07:16,160
has anybody here ever heard of the nsf

175
00:07:22,150 --> 00:07:19,680
program icor can i see a show of hands

176
00:07:22,870 --> 00:07:22,160
a couple that's about what i expected

177
00:07:25,990 --> 00:07:22,880
so

178
00:07:28,469 --> 00:07:26,000
icore is a 10 year old nsf program that

179
00:07:30,710 --> 00:07:28,479
uses experiential learning to help

180
00:07:33,749 --> 00:07:30,720
researchers gain insights into

181
00:07:35,510 --> 00:07:33,759
entrepreneurship starting a business or

182
00:07:37,029 --> 00:07:35,520
how to interact with the industry

183
00:07:40,309 --> 00:07:37,039
partners

184
00:07:41,990 --> 00:07:40,319
the nasa pilot is a pilot program it's

185
00:07:43,990 --> 00:07:42,000
going to aim to reduce the time and risk

186
00:07:45,990 --> 00:07:44,000
of translating ideas and technology from

187
00:07:48,150 --> 00:07:46,000
the lab to the marketplace we're going

188
00:07:50,950 --> 00:07:48,160

to be doing this through uh

189
00:07:53,110 --> 00:07:50,960
two phase training grants the first

190
00:07:55,670 --> 00:07:53,120
phase is about ten thousand dollars to

191
00:07:58,390 --> 00:07:55,680
support a very very small team to go to

192
00:08:00,550 --> 00:07:58,400
an nsf regional short course

193
00:08:02,550 --> 00:08:00,560
and then we can augment that by up to

194
00:08:07,029 --> 00:08:02,560
40k to provide additional support for

195
00:08:08,950 --> 00:08:07,039
those who move on to the national course

196
00:08:10,629 --> 00:08:08,960
application for this program will be

197
00:08:12,790 --> 00:08:10,639
open only to higher education

198
00:08:15,189 --> 00:08:12,800
institutions and research nonprofits so

199
00:08:17,990 --> 00:08:15,199
unfortunately nasa's civil servants and

200
00:08:19,430 --> 00:08:18,000
other agencies civil servants currently

201
00:08:21,189 --> 00:08:19,440
cannot partici will not be able to

202
00:08:23,029 --> 00:08:21,199
participate

203
00:08:25,189 --> 00:08:23,039
the key thing is to demonstrate

204
00:08:27,990 --> 00:08:25,199
relevance to either nasa science mission

205
00:08:29,589 --> 00:08:28,000
directorate objectives or nasa space

206
00:08:30,869 --> 00:08:29,599
technology mission directorate

207
00:08:32,709 --> 00:08:30,879
objectives

208
00:08:35,509 --> 00:08:32,719
this announcement will be going out very

209
00:08:39,750 --> 00:08:37,909
another new piece of re of information

210
00:08:42,389 --> 00:08:39,760
how many of you have wrestled with

211
00:08:46,470 --> 00:08:42,399
submitting proposals to pub space

212
00:08:48,949 --> 00:08:46,480
the nasa part of pubmed

213
00:08:50,949 --> 00:08:48,959

you all should have had problems because

214
00:08:53,670 --> 00:08:50,959
you all should be submitting proposed

215
00:08:55,509 --> 00:08:53,680
submitting your papers to it

216
00:08:57,350 --> 00:08:55,519
well

217
00:08:59,110 --> 00:08:57,360
hopefully for many of us that will be a

218
00:09:01,509 --> 00:08:59,120
thing of the past

219
00:09:02,949 --> 00:09:01,519
we are entering into a partnership with

220
00:09:05,190 --> 00:09:02,959
something called the clearinghouse for

221
00:09:06,550 --> 00:09:05,200
the open research of the united states

222
00:09:09,430 --> 00:09:06,560
chorus

223
00:09:11,750 --> 00:09:09,440
this is a publishing group composed of

224
00:09:14,550 --> 00:09:11,760
most of the major

225
00:09:16,470 --> 00:09:14,560
journal publishers

226
00:09:18,470 --> 00:09:16,480
once the agreement is finalized

227
00:09:21,509 --> 00:09:18,480
publishing in a course affiliated

228
00:09:25,670 --> 00:09:21,519
journal will automagically

229
00:09:28,790 --> 00:09:25,680
put your proposal your paper into

230
00:09:30,790 --> 00:09:28,800
an accessible space and so you will meet

231
00:09:33,190 --> 00:09:30,800
nasa's requirements

232
00:09:36,310 --> 00:09:33,200
uh it's expected that the course covers

233
00:09:38,389 --> 00:09:36,320
about 90 percent of nasa publications

234
00:09:41,350 --> 00:09:38,399
it you know includes major publishers

235
00:09:43,350 --> 00:09:41,360
like double a s agu springer el sevier

236
00:09:44,870 --> 00:09:43,360
and iop

237
00:09:46,870 --> 00:09:44,880
unfortunately if you publish in a

238
00:09:48,790 --> 00:09:46,880

journal that's not a course published by

239
00:09:50,870 --> 00:09:48,800
a chorus member you will still have to

240
00:09:53,190 --> 00:09:50,880
go through

241
00:09:55,190 --> 00:09:53,200
pub space but they are building a new

242
00:09:56,389 --> 00:09:55,200
interface that is supposed to be easier

243
00:09:58,230 --> 00:09:56,399
to use

244
00:10:00,790 --> 00:09:58,240
the office of the chief scientist of

245
00:10:02,630 --> 00:10:00,800
nasa will be announcing this very soon

246
00:10:05,110 --> 00:10:02,640
and once it's announced we will alter

247
00:10:08,150 --> 00:10:05,120
the language of the roses solicitation

248
00:10:11,030 --> 00:10:08,160
to say go to chorus not

249
00:10:14,870 --> 00:10:11,040
go to pub space

250
00:10:20,630 --> 00:10:17,910
starting in about 2019 we began a series

251
00:10:23,829 --> 00:10:20,640
of things called pi launch pads

252
00:10:25,110 --> 00:10:23,839
these are uh intensive

253
00:10:27,190 --> 00:10:25,120
multi-day

254
00:10:28,870 --> 00:10:27,200
events where

255
00:10:31,110 --> 00:10:28,880
we it's that are focused on helping

256
00:10:32,550 --> 00:10:31,120
researchers who have the beginnings of a

257
00:10:35,509 --> 00:10:32,560
flight mission idea

258
00:10:37,829 --> 00:10:35,519
take that mission idea to the next level

259
00:10:39,750 --> 00:10:37,839
we work on elevator pitches

260
00:10:40,870 --> 00:10:39,760
we work on what an elevator pitch is if

261
00:10:42,790 --> 00:10:40,880
you don't know

262
00:10:44,310 --> 00:10:42,800
we work on issues and how to assemble a

263
00:10:46,150 --> 00:10:44,320

team

264
00:10:48,550 --> 00:10:46,160
what support you should expect and

265
00:10:49,990 --> 00:10:48,560
demand from your home institution

266
00:10:52,230 --> 00:10:50,000
structured net we also provide

267
00:10:53,990 --> 00:10:52,240
structured networking opportunities for

268
00:10:57,350 --> 00:10:54,000
nasa centers other mission management

269
00:10:59,030 --> 00:10:57,360
centers and aerospace companies

270
00:11:00,470 --> 00:10:59,040
um we're going to be holding in the next

271
00:11:03,110 --> 00:11:00,480
one

272
00:11:06,069 --> 00:11:03,120
in june of 2023 at the university of

273
00:11:08,470 --> 00:11:06,079
michigan in ann arbor

274
00:11:11,430 --> 00:11:08,480
pretty much almost everything from the

275
00:11:13,910 --> 00:11:11,440
first two pi launch pads are available

276
00:11:16,949 --> 00:11:13,920
online so this includes the slides that

277
00:11:19,990 --> 00:11:16,959
were presented the videos of the talks

278
00:11:21,509 --> 00:11:20,000
and the workbooks that we gave out to

279
00:11:23,829 --> 00:11:21,519
participants

280
00:11:26,829 --> 00:11:23,839
and that's the link so basically if you

281
00:11:29,269 --> 00:11:26,839
go to sciencenasa.gov researchers pi

282
00:11:30,949 --> 00:11:29,279
launchpad and there's a wealth of

283
00:11:31,750 --> 00:11:30,959
material there if you're interested in

284
00:11:33,910 --> 00:11:31,760
ever

285
00:11:35,509 --> 00:11:33,920
putting together a mission

286
00:11:38,710 --> 00:11:35,519
so please be on the lookout for the next

287
00:11:40,710 --> 00:11:38,720
call for applications it should come out

288
00:11:42,870 --> 00:11:40,720

late this year

289
00:11:45,430 --> 00:11:42,880
important point to warn you about the

290
00:11:47,509 --> 00:11:45,440
application focuses very very little on

291
00:11:49,829 --> 00:11:47,519
on the science of your mission

292
00:11:52,470 --> 00:11:49,839
it focuses mostly on the leadership

293
00:11:55,110 --> 00:11:52,480
aspects of mission of running a mission

294
00:11:57,350 --> 00:11:55,120
because you can always get technical

295
00:11:59,910 --> 00:11:57,360
knowledge by the yard

296
00:12:02,629 --> 00:11:59,920
but being able to lead a team in an

297
00:12:04,550 --> 00:12:02,639
effective and inclusive manner

298
00:12:06,389 --> 00:12:04,560
is something that a lot of scientists

299
00:12:08,389 --> 00:12:06,399
and engineers have not really been

300
00:12:09,829 --> 00:12:08,399
trained to do and so that's one of the

301
00:12:11,190 --> 00:12:09,839
things that the application is going to

302
00:12:12,550 --> 00:12:11,200
focus on is

303
00:12:15,430 --> 00:12:12,560
have you thought about some of these

304
00:12:19,430 --> 00:12:17,990
so it's now my pleasure to introduce dr

305
00:12:25,269 --> 00:12:19,440
lori glaze

306
00:12:27,350 --> 00:12:25,279
planetary science division at um

307
00:12:36,829 --> 00:12:27,360
nasa science mission directorate

308
00:12:43,910 --> 00:12:40,629
great thank you michael and it is so

309
00:12:46,310 --> 00:12:43,920
good to be here at absycon i really am

310
00:12:47,670 --> 00:12:46,320
excited to be invited to to come talk to

311
00:12:51,509 --> 00:12:47,680
you all this year

312
00:12:52,949 --> 00:12:51,519
um i had hoped to come talk to you a

313
00:12:55,670 --> 00:12:52,959

year ago and of course that didn't

314
00:12:57,430 --> 00:12:55,680
happen so we're we're here now so i'm

315
00:12:58,230 --> 00:12:57,440
really really happy to be here thank you

316
00:13:02,069 --> 00:12:58,240
for

317
00:13:04,069 --> 00:13:02,079
so i just wanted to give a little bit of

318
00:13:06,150 --> 00:13:04,079
an update of some things that are going

319
00:13:06,949 --> 00:13:06,160
on in the planetary science division i

320
00:13:11,509 --> 00:13:06,959
will

321
00:13:13,509 --> 00:13:11,519
attempt to kind of skew the emphasis on

322
00:13:15,750 --> 00:13:13,519
things that hopefully are of relevance

323
00:13:17,590 --> 00:13:15,760
to this particular audience but i always

324
00:13:19,670 --> 00:13:17,600
like to start with this chart this is

325
00:13:21,990 --> 00:13:19,680
our our overall

326
00:13:23,670 --> 00:13:22,000
planetary science fleet

327
00:13:25,910 --> 00:13:23,680
and what i like to tell folks and i say

328
00:13:28,790 --> 00:13:25,920
it all the time is it is an amazing time

329
00:13:30,949 --> 00:13:28,800
to be a planetary scientist

330
00:13:32,949 --> 00:13:30,959
you can see on this chart we have 38

331
00:13:34,870 --> 00:13:32,959
missions right now either in development

332
00:13:37,110 --> 00:13:34,880
or in operations that are planetary

333
00:13:38,949 --> 00:13:37,120
science missions some of those are led

334
00:13:40,870 --> 00:13:38,959
by nasa some of them are led by our

335
00:13:43,030 --> 00:13:40,880
international partners with nasa

336
00:13:45,590 --> 00:13:43,040
contributions but it really is an

337
00:13:47,430 --> 00:13:45,600
amazing fleet some incredible science

338
00:13:49,829 --> 00:13:47,440

that's being done and will be done by

339
00:13:51,750 --> 00:13:49,839
this fleet of spacecraft that span the

340
00:13:53,030 --> 00:13:51,760
solar system all the way from mercury

341
00:13:55,670 --> 00:13:53,040
out to

342
00:13:57,590 --> 00:13:55,680
beyond pluto into the kuiper belt

343
00:13:59,030 --> 00:13:57,600
so we'll talk a little bit about a

344
00:14:00,829 --> 00:13:59,040
couple of these

345
00:14:03,829 --> 00:14:00,839
i wanted to focus on some recent

346
00:14:05,990 --> 00:14:03,839
highlights hopefully folks here are are

347
00:14:09,030 --> 00:14:06,000
fully aware of the mars 2020

348
00:14:10,949 --> 00:14:09,040
perseverance mission which is on mars

349
00:14:12,550 --> 00:14:10,959
now today it's actually celebrated a

350
00:14:13,750 --> 00:14:12,560
year on the surface of mars back in

351
00:14:15,509 --> 00:14:13,760
february

352
00:14:18,230 --> 00:14:15,519
of course the main purpose of the

353
00:14:21,030 --> 00:14:18,240
perseverance mission is to search out

354
00:14:23,269 --> 00:14:21,040
the signs of past microbial life on mars

355
00:14:24,710 --> 00:14:23,279
and we specifically selected

356
00:14:26,069 --> 00:14:24,720
jezero crater

357
00:14:27,829 --> 00:14:26,079
as a place

358
00:14:30,150 --> 00:14:27,839
that has

359
00:14:32,150 --> 00:14:30,160
an environment that might have been or

360
00:14:34,470 --> 00:14:32,160
should have been conducive to life

361
00:14:36,470 --> 00:14:34,480
forming on mars about three and a half

362
00:14:38,150 --> 00:14:36,480
billion years ago

363
00:14:40,389 --> 00:14:38,160

you can see on the top image here we've

364
00:14:42,230 --> 00:14:40,399
been spending the last year

365
00:14:44,230 --> 00:14:42,240
exploring the crater floor and trying to

366
00:14:46,550 --> 00:14:44,240
set the context for that habitability

367
00:14:48,230 --> 00:14:46,560
what was the environment like

368
00:14:50,949 --> 00:14:48,240
at the time that there was standing

369
00:14:52,710 --> 00:14:50,959
water in this crater on mars you can see

370
00:14:54,949 --> 00:14:52,720
our wheel tracks going off into the

371
00:14:56,870 --> 00:14:54,959
distance there as we've been traversing

372
00:14:58,389 --> 00:14:56,880
across the crater floor

373
00:14:59,910 --> 00:14:58,399
and in the bottom image you can see as

374
00:15:01,590 --> 00:14:59,920
we've turned around now and looking

375
00:15:05,110 --> 00:15:01,600
forward we've been

376
00:15:08,310 --> 00:15:05,120
quickly progressing and traversing

377
00:15:10,550 --> 00:15:08,320
around to a river delta that is in the

378
00:15:12,389 --> 00:15:10,560
crater where there's

379
00:15:14,389 --> 00:15:12,399
signs that a river

380
00:15:16,230 --> 00:15:14,399
was flowing into that standing body of

381
00:15:17,110 --> 00:15:16,240
water and then depositing its sediments

382
00:15:18,310 --> 00:15:17,120
there

383
00:15:20,389 --> 00:15:18,320
of course that river would have had a

384
00:15:22,310 --> 00:15:20,399
very large catchment area and it is

385
00:15:24,470 --> 00:15:22,320
evidence that water actually persisted

386
00:15:25,990 --> 00:15:24,480
on the surface of mars for long enough

387
00:15:28,389 --> 00:15:26,000
and in the time frame that life was

388
00:15:31,590 --> 00:15:28,399

forming on earth that potentially life

389
00:15:33,749 --> 00:15:31,600
may have started to take hold um on mars

390
00:15:36,069 --> 00:15:33,759
and you can see in the foreground there

391
00:15:37,910 --> 00:15:36,079
a remnant of that delta but you can see

392
00:15:40,150 --> 00:15:37,920
kind of in the middle distance the

393
00:15:41,590 --> 00:15:40,160
actual delta front the flow front which

394
00:15:43,430 --> 00:15:41,600
i think is incredible you can see the

395
00:15:46,069 --> 00:15:43,440
layers of sedimentary deposits within

396
00:15:49,269 --> 00:15:46,079
that delta and we're now on the verge of

397
00:15:51,030 --> 00:15:49,279
getting ready to explore up a gully

398
00:15:52,310 --> 00:15:51,040
to actually look through the various

399
00:15:53,749 --> 00:15:52,320
profiles

400
00:15:56,150 --> 00:15:53,759
through that through that delta and look

401
00:15:57,430 --> 00:15:56,160
for those signs of past microbial life i

402
00:15:59,350 --> 00:15:57,440
wanted to point out of course that i

403
00:16:00,870 --> 00:15:59,360
believe state katie stack morgan and

404
00:16:02,389 --> 00:16:00,880
minnie wadwa are speaking tomorrow

405
00:16:04,629 --> 00:16:02,399
morning and i imagine you'll get to hear

406
00:16:05,430 --> 00:16:04,639
a lot more about this mission one of the

407
00:16:07,509 --> 00:16:05,440
key

408
00:16:08,470 --> 00:16:07,519
uh objectives of this mission is also to

409
00:16:09,749 --> 00:16:08,480
not only

410
00:16:11,910 --> 00:16:09,759
take measurements and look at the

411
00:16:14,150 --> 00:16:11,920
deposits in situ on this on the surface

412
00:16:15,910 --> 00:16:14,160
of mars but to collect some samples that

413
00:16:17,990 --> 00:16:15,920

will eventually be returned back to

414
00:16:20,069 --> 00:16:18,000
earth from the mars sample return

415
00:16:22,949 --> 00:16:20,079
program and so we're really excited

416
00:16:26,069 --> 00:16:22,959
about that mars sample return mission it

417
00:16:28,470 --> 00:16:26,079
is underway in phase a of development um

418
00:16:30,150 --> 00:16:28,480
with expectation that it would launch at

419
00:16:32,389 --> 00:16:30,160
the end of this decade in partnership

420
00:16:34,710 --> 00:16:32,399
with european space agency

421
00:16:37,189 --> 00:16:34,720
fly to mars collect those samples that

422
00:16:39,509 --> 00:16:37,199
perseverance has been taking and bring

423
00:16:41,670 --> 00:16:39,519
them back here to earth so that's pretty

424
00:16:43,670 --> 00:16:41,680
exciting times to realize a dream that

425
00:16:45,990 --> 00:16:43,680
we've had for for decades and decades to

426
00:16:48,230 --> 00:16:46,000
bring a sample back from mars

427
00:16:52,470 --> 00:16:48,240
i wanted to speak for a moment about our

428
00:16:54,470 --> 00:16:52,480
partner uh asteroid missions osiris-rex

429
00:16:56,470 --> 00:16:54,480
which is the u.s mission in hayabusa ii

430
00:16:58,470 --> 00:16:56,480
which is a mission led by the japanese

431
00:17:00,710 --> 00:16:58,480
space agency jaxa

432
00:17:02,629 --> 00:17:00,720
both of these missions visited asteroids

433
00:17:04,710 --> 00:17:02,639
in the over the last several years and

434
00:17:07,029 --> 00:17:04,720
were able to collect samples of those

435
00:17:09,510 --> 00:17:07,039
asteroids to bring back to earth again

436
00:17:11,189 --> 00:17:09,520
these asteroids being you know carrying

437
00:17:13,429 --> 00:17:11,199
remnants of the earliest part of our

438
00:17:16,150 --> 00:17:13,439

solar system and hopefully being able to

439
00:17:17,590 --> 00:17:16,160
provide us insights into the

440
00:17:19,669 --> 00:17:17,600
the building blocks for life that may

441
00:17:21,590 --> 00:17:19,679
have been delivered um by these um

442
00:17:24,710 --> 00:17:21,600
asteroids to earth and other bodies in

443
00:17:26,870 --> 00:17:24,720
the solar system as well as uh the the

444
00:17:28,710 --> 00:17:26,880
water that would have been um delivered

445
00:17:30,150 --> 00:17:28,720
um to the various planets that could

446
00:17:31,830 --> 00:17:30,160
have been the seeds for the oceans that

447
00:17:34,390 --> 00:17:31,840
we have today

448
00:17:36,630 --> 00:17:34,400
the samples from the hayabusa 2 mission

449
00:17:39,990 --> 00:17:36,640
were delivered to earth

450
00:17:41,430 --> 00:17:40,000
in december of 2020

451
00:17:43,270 --> 00:17:41,440
and they've been

452
00:17:45,110 --> 00:17:43,280
the teams have been analyzing and doing

453
00:17:47,110 --> 00:17:45,120
some great work with those samples and

454
00:17:49,110 --> 00:17:47,120
we're actually sharing samples between

455
00:17:50,390 --> 00:17:49,120
jaxa and nasa and the nasa portion of

456
00:17:52,549 --> 00:17:50,400
that sample

457
00:17:55,350 --> 00:17:52,559
was delivered to nasa to johnson space

458
00:17:57,270 --> 00:17:55,360
center in december of 2021 so that's an

459
00:18:00,789 --> 00:17:57,280
exciting step there on hayabusa 2

460
00:18:02,870 --> 00:18:00,799
osiris-rex is still winging its way back

461
00:18:06,150 --> 00:18:02,880
from asteroid bennu and expected to

462
00:18:08,870 --> 00:18:06,160
deliver those samples in the fall of

463
00:18:10,950 --> 00:18:08,880

2023 so we're anxiously awaiting those

464
00:18:12,950 --> 00:18:10,960
samples to be delivered back here as

465
00:18:15,190 --> 00:18:12,960
well again allowing us to use the full

466
00:18:17,029 --> 00:18:15,200
breadth of our analytic capabilities

467
00:18:19,190 --> 00:18:17,039
here on earth and take advantage of the

468
00:18:22,710 --> 00:18:19,200
entire scientific community around the

469
00:18:28,150 --> 00:18:25,990
looking ahead we have some amazing and

470
00:18:29,830 --> 00:18:28,160
incredible missions coming up that

471
00:18:31,830 --> 00:18:29,840
michael kind of alluded to in his

472
00:18:33,669 --> 00:18:31,840
opening remarks

473
00:18:35,270 --> 00:18:33,679
first and foremost europa clipper which

474
00:18:37,669 --> 00:18:35,280
is our next big

475
00:18:38,630 --> 00:18:37,679
so-called flagship or directed strategic

476
00:18:41,270 --> 00:18:38,640
mission

477
00:18:43,270 --> 00:18:41,280
it's moving towards a launch in 2024 so

478
00:18:45,270 --> 00:18:43,280
that's coming up quick it's getting here

479
00:18:47,270 --> 00:18:45,280
it's going to be here soon europa

480
00:18:49,590 --> 00:18:47,280
clipper is a mission to fly a spacecraft

481
00:18:52,630 --> 00:18:49,600
that will go into orbit around jupiter

482
00:18:54,789 --> 00:18:52,640
and then execute multiple flybys of

483
00:18:56,470 --> 00:18:54,799
jupiter's moon europa

484
00:18:58,870 --> 00:18:56,480
it's equipped with

485
00:19:01,510 --> 00:18:58,880
an incredible suite of instruments that

486
00:19:04,310 --> 00:19:01,520
will map out uh the composition of the

487
00:19:06,870 --> 00:19:04,320
materials on the ice of europa on its

488
00:19:08,870 --> 00:19:06,880

ice crust it will help to measure the

489
00:19:10,710 --> 00:19:08,880
thickness of that icy crust it will help

490
00:19:12,470 --> 00:19:10,720
to help us understand the depth and

491
00:19:15,510 --> 00:19:12,480
salinity of the ocean

492
00:19:17,590 --> 00:19:15,520
on europa and help us really understand

493
00:19:20,789 --> 00:19:17,600
just how habitable that environment is

494
00:19:22,150 --> 00:19:20,799
today for life on europa

495
00:19:24,310 --> 00:19:22,160
it says here on the chart they entered

496
00:19:26,630 --> 00:19:24,320
into their assembly test and launch

497
00:19:27,990 --> 00:19:26,640
operations or atlo in march of this year

498
00:19:29,750 --> 00:19:28,000
meaning they're really starting to pull

499
00:19:31,430 --> 00:19:29,760
the hardware together from that

500
00:19:33,110 --> 00:19:31,440
spacecraft and build the spacecraft and

501
00:19:35,430 --> 00:19:33,120
getting it ready for launch

502
00:19:36,630 --> 00:19:35,440
i wanted to mention dragonfly

503
00:19:38,470 --> 00:19:36,640
one

504
00:19:40,470 --> 00:19:38,480
interesting part about fl dragonfly is

505
00:19:42,630 --> 00:19:40,480
that i believe that that was announced

506
00:19:46,310 --> 00:19:42,640
the selection of dragonfly three years

507
00:19:48,950 --> 00:19:46,320
ago here at absycon the one that uh

508
00:19:51,350 --> 00:19:48,960
michael was referring to in seattle um

509
00:19:53,270 --> 00:19:51,360
that uh that amazing announcement we

510
00:19:55,590 --> 00:19:53,280
were so excited about the selection of

511
00:19:57,669 --> 00:19:55,600
dragonfly which really is uh an

512
00:20:00,710 --> 00:19:57,679
incredible mission to explore titan the

513
00:20:02,390 --> 00:20:00,720

moon of saturn um a organic rich

514
00:20:05,350 --> 00:20:02,400
environment um

515
00:20:08,549 --> 00:20:05,360
to fly a dual uh

516
00:20:10,710 --> 00:20:08,559
dual quadcopter rotor craft on

517
00:20:12,710 --> 00:20:10,720
titan and explore

518
00:20:15,110 --> 00:20:12,720
the the chemistry and the environment

519
00:20:16,070 --> 00:20:15,120
the habitability of the environment on

520
00:20:18,070 --> 00:20:16,080
titan

521
00:20:19,990 --> 00:20:18,080
it's moving forward really well i know i

522
00:20:21,270 --> 00:20:20,000
saw the pi here earlier today i don't

523
00:20:22,630 --> 00:20:21,280
know if she's in the audience right now

524
00:20:24,710 --> 00:20:22,640
but zibby turtle

525
00:20:26,070 --> 00:20:24,720
is around here i'm sure she'd be happy

526
00:20:27,830 --> 00:20:26,080
to tell you as much as you want to hear

527
00:20:30,470 --> 00:20:27,840
about this incredible mission that

528
00:20:32,070 --> 00:20:30,480
expected to launch in 2027

529
00:20:32,950 --> 00:20:32,080
and then lastly i wanted to mention that

530
00:20:35,990 --> 00:20:32,960
just

531
00:20:38,470 --> 00:20:36,000
a year ago or so we selected

532
00:20:40,230 --> 00:20:38,480
two missions to fly to venus

533
00:20:42,470 --> 00:20:40,240
through the discovery program it's been

534
00:20:44,310 --> 00:20:42,480
a long long long time since the u.s sent

535
00:20:45,830 --> 00:20:44,320
a mission to venus and there's a lot of

536
00:20:47,750 --> 00:20:45,840
exciting science

537
00:20:49,510 --> 00:20:47,760
to be conducted at venus the two

538
00:20:51,750 --> 00:20:49,520

missions you can see on the left at the

539
00:20:53,029 --> 00:20:51,760
bottom right is the veritas mission to

540
00:20:54,870 --> 00:20:53,039
fly

541
00:20:57,430 --> 00:20:54,880
a radar system that will map out the

542
00:20:59,510 --> 00:20:57,440
topography of the surface of venus and

543
00:21:02,070 --> 00:20:59,520
also carry spectrometers to get a sense

544
00:21:03,990 --> 00:21:02,080
of the surface composition and then da

545
00:21:05,430 --> 00:21:04,000
vinci shown on the bottom right is a

546
00:21:08,070 --> 00:21:05,440
probe to enter down through the

547
00:21:10,870 --> 00:21:08,080
atmosphere i'm collecting in-situ

548
00:21:12,950 --> 00:21:10,880
measurements of the atmosphere

549
00:21:14,630 --> 00:21:12,960
and giving us a detailed profile of that

550
00:21:16,470 --> 00:21:14,640
composition

551
00:21:19,510 --> 00:21:16,480
the combined those two visions are going

552
00:21:22,230 --> 00:21:19,520
to give us a great sense of insight into

553
00:21:23,750 --> 00:21:22,240
the habitability in venus's past in a

554
00:21:25,830 --> 00:21:23,760
sense of what the environment is like

555
00:21:28,470 --> 00:21:25,840
there today and i'm sure this community

556
00:21:31,110 --> 00:21:28,480
is aware that um a while back there was

557
00:21:34,390 --> 00:21:31,120
a lot of interest around whether or not

558
00:21:36,870 --> 00:21:34,400
venus's clouds might be habitable today

559
00:21:38,870 --> 00:21:36,880
and i have being someone who came from

560
00:21:41,750 --> 00:21:38,880
the venus community at one point in my

561
00:21:43,029 --> 00:21:41,760
past i've encouraged that community to

562
00:21:44,390 --> 00:21:43,039
to make sure they're making real

563
00:21:46,390 --> 00:21:44,400

connections and working with and

564
00:21:48,070 --> 00:21:46,400
collaborating with card carrying

565
00:21:49,430 --> 00:21:48,080
astrobiologists to help them really

566
00:21:52,630 --> 00:21:49,440
understand

567
00:21:54,390 --> 00:21:52,640
the realism of that of that particular

568
00:21:56,310 --> 00:21:54,400
line of thought so i want to encourage

569
00:21:57,830 --> 00:21:56,320
this community as well

570
00:21:59,750 --> 00:21:57,840
that if you have an interest to please

571
00:22:01,830 --> 00:21:59,760
work with those venus scientists to help

572
00:22:04,470 --> 00:22:01,840
keep them on the straight and narrow as

573
00:22:07,350 --> 00:22:04,480
they are trying to navigate

574
00:22:09,669 --> 00:22:07,360
some interesting waters there

575
00:22:11,510 --> 00:22:09,679
um lastly i know that you guys uh had a

576
00:22:13,110 --> 00:22:11,520
presentation whether it was this morning

577
00:22:15,190 --> 00:22:13,120
on the decadal survey so i can't tell

578
00:22:15,990 --> 00:22:15,200
you anything that they uh didn't already

579
00:22:17,990 --> 00:22:16,000
say

580
00:22:21,190 --> 00:22:18,000
we are really excited about this new

581
00:22:22,870 --> 00:22:21,200
decadal survey it's uh got so many uh

582
00:22:26,390 --> 00:22:22,880
aspirational goals and we're in the

583
00:22:29,350 --> 00:22:26,400
process of digesting all uh 700 or so

584
00:22:30,789 --> 00:22:29,360
pages right now to help us

585
00:22:33,110 --> 00:22:30,799
figure out what our next plans are going

586
00:22:34,630 --> 00:22:33,120
to be we expect to start communicating

587
00:22:36,310 --> 00:22:34,640
with the public

588
00:22:38,549 --> 00:22:36,320

and the science community

589
00:22:40,789 --> 00:22:38,559
mid-summer about what our preliminary

590
00:22:43,510 --> 00:22:40,799
response is to that incredible decadal

591
00:22:45,590 --> 00:22:43,520
survey so please look forward to that

592
00:22:47,909 --> 00:22:45,600
and then finally i know michael spoke to

593
00:22:50,870 --> 00:22:47,919
some of the idea activities that are

594
00:22:52,710 --> 00:22:50,880
going on at smd he mentioned the

595
00:22:54,230 --> 00:22:52,720
national association of black

596
00:22:55,750 --> 00:22:54,240
physicists that's something that within

597
00:22:57,990 --> 00:22:55,760
planetary science division we are

598
00:22:59,510 --> 00:22:58,000
working and having regular conversations

599
00:23:01,270 --> 00:22:59,520
with the leadership of that leadership

600
00:23:03,510 --> 00:23:01,280
of that organization and trying to find

601
00:23:05,270 --> 00:23:03,520
better ways to engage um with that

602
00:23:06,630 --> 00:23:05,280
important community

603
00:23:08,470 --> 00:23:06,640
i'm not going to speak to this slide in

604
00:23:11,430 --> 00:23:08,480
particular but i would like to encourage

605
00:23:13,990 --> 00:23:11,440
folks to um to come to lawan moore's

606
00:23:15,430 --> 00:23:14,000
talk at one o'clock or 108 on wednesday

607
00:23:18,789 --> 00:23:15,440
where she's going to detail some of the

608
00:23:20,390 --> 00:23:18,799
other activities in the idea area within

609
00:23:23,990 --> 00:23:20,400
planetary science

610
00:23:25,590 --> 00:23:24,000
and so with that i am going to

611
00:23:28,470 --> 00:23:25,600
pause for now and i think we're handing

612
00:23:34,830 --> 00:23:28,480
it over to mary wojtek

613
00:23:40,630 --> 00:23:37,750

okay um

614
00:23:42,870 --> 00:23:40,640
everything looks ready to go

615
00:23:45,909 --> 00:23:42,880
uh so

616
00:23:47,830 --> 00:23:45,919
we're really excited that lori and

617
00:23:49,350 --> 00:23:47,840
michael are able to join us

618
00:23:51,430 --> 00:23:49,360
um we're gonna spend some time now

619
00:23:53,590 --> 00:23:51,440
talking about our programs but

620
00:23:54,870 --> 00:23:53,600
mainly focusing on highlights or changes

621
00:23:56,710 --> 00:23:54,880
for the future

622
00:23:59,029 --> 00:23:56,720
uh things that we need you as our

623
00:24:01,269 --> 00:23:59,039
community to really pay attention to

624
00:24:03,750 --> 00:24:01,279
to be as engaged as you possibly can in

625
00:24:05,669 --> 00:24:03,760
this really exciting time

626
00:24:06,630 --> 00:24:05,679
for astrobiology

627
00:24:14,870 --> 00:24:06,640
so

628
00:24:16,070 --> 00:24:14,880
outline of what we're going to talk

629
00:24:17,990 --> 00:24:16,080
about

630
00:24:19,750 --> 00:24:18,000
and actually although i'm up here first

631
00:24:20,950 --> 00:24:19,760
talking i just wanted to welcome you

632
00:24:24,149 --> 00:24:20,960
tell you how

633
00:24:26,149 --> 00:24:24,159
how sad i am not to be there with you um

634
00:24:28,070 --> 00:24:26,159
and and get the opportunity all week to

635
00:24:29,510 --> 00:24:28,080
talk you through some of the new things

636
00:24:31,190 --> 00:24:29,520
but we're gonna see if we can't cover

637
00:24:33,750 --> 00:24:31,200
some of that now and you know that all

638
00:24:35,750 --> 00:24:33,760

of us are always open to being contacted

639
00:24:36,789 --> 00:24:35,760
and talking to you whenever you need to

640
00:24:38,870 --> 00:24:36,799
but the first thing we're going to talk

641
00:24:41,830 --> 00:24:38,880
about is some new overall requirements

642
00:24:44,149 --> 00:24:41,840
in the planetary sciences rna program

643
00:24:46,230 --> 00:24:44,159
we'll go through some specifics for

644
00:24:47,669 --> 00:24:46,240
programs that we have we want to talk a

645
00:24:49,269 --> 00:24:47,679
little bit about

646
00:24:51,990 --> 00:24:49,279
some other opportunities for you to get

647
00:24:54,390 --> 00:24:52,000
involved opportunities for early career

648
00:24:56,230 --> 00:24:54,400
people and opportunities to get involved

649
00:24:57,909 --> 00:24:56,240
in science communication and education

650
00:24:59,190 --> 00:24:57,919
and public engagement

651
00:25:02,950 --> 00:24:59,200
so i think the next person that's

652
00:25:06,710 --> 00:25:04,870
and thank you very much i hope you can

653
00:25:08,789 --> 00:25:06,720
see the next slide

654
00:25:10,149 --> 00:25:08,799
so the next slide is just as mary was

655
00:25:11,510 --> 00:25:10,159
saying a little bit about new

656
00:25:13,430 --> 00:25:11,520
requirements

657
00:25:15,909 --> 00:25:13,440
this slide is really serving two

658
00:25:17,110 --> 00:25:15,919
purposes here um the first is to give

659
00:25:18,950 --> 00:25:17,120
you guys a little bit of information

660
00:25:20,549 --> 00:25:18,960
about these new requirements the first

661
00:25:22,710 --> 00:25:20,559
of which that may be relevant to some of

662
00:25:24,470 --> 00:25:22,720
you is the requirement for field work

663
00:25:26,230 --> 00:25:24,480

and that is proposers conducting field

664
00:25:27,669 --> 00:25:26,240
research must include a description of

665
00:25:29,190 --> 00:25:27,679
their use of field sites and that

666
00:25:31,750 --> 00:25:29,200
demonstrates and then we give you a

667
00:25:34,630 --> 00:25:31,760
little bit of specificity about the the

668
00:25:37,190 --> 00:25:34,640
um the field research plan that you must

669
00:25:41,430 --> 00:25:37,200
include as part of your proposal um and

670
00:25:44,310 --> 00:25:41,440
that can be found in section 3.5 or 3.15

671
00:25:47,590 --> 00:25:44,320
of c1 the second is about the science

672
00:25:49,990 --> 00:25:47,600
information policy this spd 41 describes

673
00:25:52,149 --> 00:25:50,000
how scientific information produced from

674
00:25:54,230 --> 00:25:52,159
smd funding is shared

675
00:25:55,909 --> 00:25:54,240
includes publications data and software

676
00:25:58,870 --> 00:25:55,919
produced as part of the scientific

677
00:26:00,710 --> 00:25:58,880
research um activities and the

678
00:26:02,310 --> 00:26:00,720
information that is important about both

679
00:26:04,950 --> 00:26:02,320
of these uh that was that's the sort of

680
00:26:07,110 --> 00:26:04,960
specificity um and just a one other note

681
00:26:10,390 --> 00:26:07,120
sorry about regarding the field work uh

682
00:26:12,310 --> 00:26:10,400
we are both uh asking this for um

683
00:26:13,990 --> 00:26:12,320
proposers that are being or proposals

684
00:26:17,350 --> 00:26:14,000
that are being written now um and that

685
00:26:19,669 --> 00:26:17,360
will be submitted in roses 22 as well as

686
00:26:21,750 --> 00:26:19,679
um work that is undergoing and we'll be

687
00:26:22,950 --> 00:26:21,760
uh reaching out to our community to

688
00:26:25,190 --> 00:26:22,960

funded researchers within the

689
00:26:26,870 --> 00:26:25,200
astrobiology program and sort of and

690
00:26:29,350 --> 00:26:26,880
checking their plans for field work and

691
00:26:31,110 --> 00:26:29,360
making sure that it um that they have a

692
00:26:32,630 --> 00:26:31,120
plan that has reflects a lot of these

693
00:26:34,630 --> 00:26:32,640
things um

694
00:26:37,510 --> 00:26:34,640
regarding the science information policy

695
00:26:40,310 --> 00:26:37,520
spd 41a will be incorporated into roses

696
00:26:42,310 --> 00:26:40,320
23 so you should look for it there

697
00:26:43,590 --> 00:26:42,320
and the important thing about both of

698
00:26:46,310 --> 00:26:43,600
these things is to note of course that

699
00:26:48,630 --> 00:26:46,320
you always need to read c1 the way the

700
00:26:49,830 --> 00:26:48,640
nasa calls are are um

701
00:26:51,350 --> 00:26:49,840
are written

702
00:26:53,990 --> 00:26:51,360
is that they're sort of hierarchically

703
00:26:58,149 --> 00:26:54,000
organizing information so in addition to

704
00:26:59,909 --> 00:26:58,159
reading for example uh c.5 exobiology

705
00:27:02,310 --> 00:26:59,919
program call you should also be reading

706
00:27:03,510 --> 00:27:02,320
c1 which details information about all

707
00:27:05,669 --> 00:27:03,520
of the things that are relevant to the

708
00:27:07,190 --> 00:27:05,679
planetary science division calls as well

709
00:27:08,310 --> 00:27:07,200
as the guidebook for proposals so

710
00:27:09,990 --> 00:27:08,320
thinking about

711
00:27:12,390 --> 00:27:10,000
information that applies to all can be

712
00:27:15,029 --> 00:27:12,400
found in sort of hierarchical

713
00:27:16,230 --> 00:27:15,039

information guides

714
00:27:18,549 --> 00:27:16,240
i'm also going to be talking a little

715
00:27:20,389 --> 00:27:18,559
bit about the exobiology program

716
00:27:21,590 --> 00:27:20,399
so i am the lead for the exobiology

717
00:27:23,269 --> 00:27:21,600
program and this year i've been working

718
00:27:25,110 --> 00:27:23,279
primarily with jeff wheat who i

719
00:27:27,190 --> 00:27:25,120
understand is there so if you have any

720
00:27:28,389 --> 00:27:27,200
questions definitely um he's another

721
00:27:34,630 --> 00:27:28,399
person you can seek out for some

722
00:27:39,110 --> 00:27:37,269
i said ask jeff to stand up and wave oh

723
00:27:42,230 --> 00:27:39,120
jeff if you can stand up and wave while

724
00:27:43,990 --> 00:27:42,240
i continue that would be great um

725
00:27:45,990 --> 00:27:44,000
i can see them scoping the room there's

726
00:27:48,350 --> 00:27:46,000
jeff um somewhere this feels like the

727
00:27:51,190 --> 00:27:48,360
price is right okay um

728
00:27:53,669 --> 00:27:51,200
[Laughter]

729
00:27:55,830 --> 00:27:53,679
so uh we're working this year to execute

730
00:27:57,909 --> 00:27:55,840
the exobiology program as a no due dates

731
00:27:59,830 --> 00:27:57,919
program um and one of the benefits of

732
00:28:01,430 --> 00:27:59,840
this that we're really trying to hope

733
00:28:03,430 --> 00:28:01,440
that we see here is it'll enhance the

734
00:28:06,070 --> 00:28:03,440
ability of a wider range of pis to

735
00:28:07,590 --> 00:28:06,080
propose uh folks that may have personal

736
00:28:10,070 --> 00:28:07,600
issues that you know may come up right

737
00:28:12,149 --> 00:28:10,080
before a call or allow people at smaller

738
00:28:14,230 --> 00:28:12,159

universities to have a little bit less

739
00:28:16,549 --> 00:28:14,240
specificity about when they need to bug

740
00:28:18,470 --> 00:28:16,559
their aor about things um and so i

741
00:28:20,389 --> 00:28:18,480
wanted to address uh three common

742
00:28:23,430 --> 00:28:20,399
misconceptions or common questions i've

743
00:28:25,510 --> 00:28:23,440
had about exobiology and no due dates um

744
00:28:27,510 --> 00:28:25,520
the first is that you will notice that

745
00:28:30,470 --> 00:28:27,520
there is some overlap this year it's

746
00:28:33,830 --> 00:28:30,480
about about six weeks uh between the end

747
00:28:37,110 --> 00:28:33,840
of the roses 21 due dates call no due

748
00:28:39,430 --> 00:28:37,120
date uh call and the start of the roses

749
00:28:42,310 --> 00:28:39,440
22 call so the start of the rosa 222

750
00:28:45,669 --> 00:28:42,320
call was in about early mid-february the

751
00:28:47,830 --> 00:28:45,679
roses 21 exobiology call ended in uh

752
00:28:49,350 --> 00:28:47,840
sort of towards the end of march um that

753
00:28:51,350 --> 00:28:49,360
doesn't mean that there's actually a due

754
00:28:53,909 --> 00:28:51,360
date you can apply to either of them

755
00:28:56,070 --> 00:28:53,919
while they're open um if you have a

756
00:28:58,470 --> 00:28:56,080
concept and you started to get it in in

757
00:28:59,909 --> 00:28:58,480
the roses 21 call and you realize you

758
00:29:01,350 --> 00:28:59,919
weren't going to be able to get it in

759
00:29:02,710 --> 00:29:01,360
there's nothing if you didn't submit it

760
00:29:05,110 --> 00:29:02,720
yet you can always submit it in the

761
00:29:06,870 --> 00:29:05,120
roses 22 call but there's this is sort

762
00:29:08,389 --> 00:29:06,880
of an artificial due date but it really

763
00:29:10,070 --> 00:29:08,399

has nothing to do with our sort of

764
00:29:11,190 --> 00:29:10,080
rolling due dates

765
00:29:13,750 --> 00:29:11,200
that we have

766
00:29:16,149 --> 00:29:13,760
um additionally uh we are doing it's

767
00:29:18,149 --> 00:29:16,159
really really now due dates in that we

768
00:29:19,190 --> 00:29:18,159
are having regular reviews um so you

769
00:29:20,950 --> 00:29:19,200
should think about it like a bus

770
00:29:23,830 --> 00:29:20,960
schedule in a country where buses are

771
00:29:26,149 --> 00:29:23,840
frequently uh on time and the idea there

772
00:29:28,870 --> 00:29:26,159
being that uh if you don't get it in

773
00:29:30,630 --> 00:29:28,880
right now um or today there you know you

774
00:29:32,389 --> 00:29:30,640
may miss this particular review but the

775
00:29:34,149 --> 00:29:32,399
next review is happening in a very short

776
00:29:35,750 --> 00:29:34,159
time um so you'll be picked up in the

777
00:29:37,669 --> 00:29:35,760
next one we're not waiting for a

778
00:29:39,029 --> 00:29:37,679
particular number of proposals in order

779
00:29:41,110 --> 00:29:39,039
to run a review

780
00:29:43,029 --> 00:29:41,120
and then this also again means there

781
00:29:44,870 --> 00:29:43,039
really are new due dates with regards to

782
00:29:46,389 --> 00:29:44,880
selections and funding we will make

783
00:29:48,789 --> 00:29:46,399
selections regularly we have made

784
00:29:50,710 --> 00:29:48,799
selections regularly and we manage our

785
00:29:52,230 --> 00:29:50,720
funding throughout the year so it's not

786
00:29:53,510 --> 00:29:52,240
like if you don't get it in early

787
00:29:54,870 --> 00:29:53,520
there's going to be some problem with

788
00:29:56,630 --> 00:29:54,880

funding or anything so think about it

789
00:29:57,830 --> 00:29:56,640
like a household budget right you know

790
00:29:59,350 --> 00:29:57,840
you're going to get paid at the start of

791
00:30:00,870 --> 00:29:59,360
the month or at some point in the month

792
00:30:01,990 --> 00:30:00,880
um and you manage your expenses

793
00:30:04,149 --> 00:30:02,000
throughout

794
00:30:06,470 --> 00:30:04,159
i will note um our response times are

795
00:30:08,630 --> 00:30:06,480
slightly better on average uh than uh

796
00:30:12,230 --> 00:30:08,640
than previously so we're happy that this

797
00:30:13,590 --> 00:30:12,240
is um improving that uh that metric um

798
00:30:15,430 --> 00:30:13,600
and the other thing that's worth noting

799
00:30:17,590 --> 00:30:15,440
is that there is a one-year prohibition

800
00:30:20,310 --> 00:30:17,600
on resubmission so um if you're

801
00:30:22,549 --> 00:30:20,320
submitting a proposal that has um the

802
00:30:25,909 --> 00:30:22,559
same proposal scope this isn't you know

803
00:30:27,350 --> 00:30:25,919
you uh pi jones cannot submit again a

804
00:30:28,549 --> 00:30:27,360
different concept but if you are

805
00:30:31,110 --> 00:30:28,559
submitting the proposal that has the

806
00:30:32,870 --> 00:30:31,120
same proposal scope um and it was not

807
00:30:34,710 --> 00:30:32,880
selected you do you must wait a year

808
00:30:37,430 --> 00:30:34,720
from when you originally submitted to

809
00:30:38,789 --> 00:30:37,440
resubmit that um and then finally the

810
00:30:41,110 --> 00:30:38,799
thing i want to make note here is about

811
00:30:43,269 --> 00:30:41,120
external reviews for a number of reasons

812
00:30:45,350 --> 00:30:43,279
they are more important than ever before

813
00:30:46,950 --> 00:30:45,360

um because of the spread of proposals we

814
00:30:48,950 --> 00:30:46,960
are having smaller panels and external

815
00:30:50,149 --> 00:30:48,960
reviews um become more important right

816
00:30:52,789 --> 00:30:50,159
we want to make sure that we're getting

817
00:30:55,350 --> 00:30:52,799
those expert reviews uh that we have uh

818
00:30:58,470 --> 00:30:55,360
that we've been that we do um and so

819
00:31:00,630 --> 00:30:58,480
please um if you are asked to serve and

820
00:31:02,630 --> 00:31:00,640
provide an external review uh please

821
00:31:04,310 --> 00:31:02,640
help please offer you know please agree

822
00:31:05,990 --> 00:31:04,320
to just to do that review if you can

823
00:31:07,269 --> 00:31:06,000
make it work and please take them

824
00:31:09,430 --> 00:31:07,279
seriously please provide as much

825
00:31:11,190 --> 00:31:09,440
information as you can

826
00:31:13,350 --> 00:31:11,200
and then just a general reminder more

827
00:31:15,430 --> 00:31:13,360
information about individual programs

828
00:31:17,509 --> 00:31:15,440
and psd rna as a whole can always be

829
00:31:19,430 --> 00:31:17,519
found at our regular pac meetings

830
00:31:21,750 --> 00:31:19,440
um and this is my last slide for now i'm

831
00:31:25,430 --> 00:31:21,760
going to be handing it over to becky who

832
00:31:27,430 --> 00:31:25,440
i believe is in the room um i am i think

833
00:31:28,549 --> 00:31:27,440
she should be there she is i will meet

834
00:31:30,710 --> 00:31:28,559
myself go ahead because all right

835
00:31:32,149 --> 00:31:30,720
perfect thanks thanks lindsay um so hi

836
00:31:33,990 --> 00:31:32,159
everyone it's been really great to to

837
00:31:36,310 --> 00:31:34,000
see so many familiar faces and meet so

838
00:31:37,830 --> 00:31:36,320

many new people this week um

839
00:31:40,149 --> 00:31:37,840
last time i was at apps icon was in

840
00:31:41,990 --> 00:31:40,159
chicago so this has been really great um

841
00:31:42,950 --> 00:31:42,000
so i'm the program officer for habitable

842
00:31:44,710 --> 00:31:42,960
worlds

843
00:31:45,990 --> 00:31:44,720
and just wanted to share some things

844
00:31:49,110 --> 00:31:46,000
about that program that have changed

845
00:31:50,870 --> 00:31:49,120
recently so i'm starting with roses 2020

846
00:31:53,430 --> 00:31:50,880
have worlds moved to using the dual

847
00:31:55,590 --> 00:31:53,440
anonymous peer review process which

848
00:31:57,190 --> 00:31:55,600
michael mentioned earlier so some of you

849
00:31:59,669 --> 00:31:57,200
might have been through through that

850
00:32:01,669 --> 00:31:59,679
gauntlet at this point um but i did just

851
00:32:04,310 --> 00:32:01,679
want to share some some pointers on that

852
00:32:06,710 --> 00:32:04,320
especially uh since uh

853
00:32:09,669 --> 00:32:06,720
we'll be moving towards uh more programs

854
00:32:11,190 --> 00:32:09,679
using dual anonymous um so

855
00:32:13,430 --> 00:32:11,200
it's very important to submit a

856
00:32:15,269 --> 00:32:13,440
compliant proposal right in general this

857
00:32:17,590 --> 00:32:15,279
has been the case for a long time in

858
00:32:19,029 --> 00:32:17,600
terms of page counts and font sizes but

859
00:32:21,509 --> 00:32:19,039
that's also important in terms of

860
00:32:23,190 --> 00:32:21,519
anonymizing your proposal and that means

861
00:32:26,149 --> 00:32:23,200
that you need to spend a little bit more

862
00:32:28,149 --> 00:32:26,159
time um figuring out how to write such a

863
00:32:30,230 --> 00:32:28,159

proposal it's a slightly different

864
00:32:31,669 --> 00:32:30,240
writing style that you may not be used

865
00:32:33,509 --> 00:32:31,679
to and so be prepared for that

866
00:32:35,990 --> 00:32:33,519
especially the first time you go to

867
00:32:37,590 --> 00:32:36,000
submit a proposal to a dual anonymous

868
00:32:39,110 --> 00:32:37,600
program

869
00:32:40,549 --> 00:32:39,120
and make sure you really pay attention

870
00:32:42,549 --> 00:32:40,559
to the rules right

871
00:32:44,389 --> 00:32:42,559
for for that anonymization

872
00:32:46,950 --> 00:32:44,399
so just as an example

873
00:32:49,269 --> 00:32:46,960
for habitable worlds 20 out of the 71

874
00:32:52,070 --> 00:32:49,279
proposals that were submitted we flagged

875
00:32:55,750 --> 00:32:52,080
16 proposals for non-compliance

876
00:32:58,149 --> 00:32:55,760
this was you know a wide range of issues

877
00:33:00,710 --> 00:32:58,159
anything from improperly blacked out

878
00:33:02,070 --> 00:33:00,720
text right so maybe a

879
00:33:04,630 --> 00:33:02,080
human reader

880
00:33:06,870 --> 00:33:04,640
can't see it but a computer can

881
00:33:08,630 --> 00:33:06,880
to minor infractions like improper

882
00:33:11,430 --> 00:33:08,640
citation formats

883
00:33:13,430 --> 00:33:11,440
to really egregious

884
00:33:15,669 --> 00:33:13,440
errors in terms of identifying the

885
00:33:17,590 --> 00:33:15,679
proposal team or the institution

886
00:33:19,909 --> 00:33:17,600
throughout the entire document

887
00:33:21,430 --> 00:33:19,919
so really want to help you avoid those

888
00:33:22,710 --> 00:33:21,440

issues and there's some really great

889
00:33:24,710 --> 00:33:22,720
resources

890
00:33:26,230 --> 00:33:24,720
at the link on this slide

891
00:33:28,630 --> 00:33:26,240
on the dual anonymous peer review

892
00:33:29,909 --> 00:33:28,640
process there's examples on the ways to

893
00:33:32,470 --> 00:33:29,919
to write

894
00:33:34,950 --> 00:33:32,480
and a really clear examples of

895
00:33:38,310 --> 00:33:34,960
the way that you should follow the rules

896
00:33:40,630 --> 00:33:38,320
next slide please

897
00:33:43,909 --> 00:33:40,640
so i'm also the planetary protection uh

898
00:33:46,549 --> 00:33:43,919
research manager um for uh planetary uh

899
00:33:48,950 --> 00:33:46,559
for well for smd um so planetary

900
00:33:50,710 --> 00:33:48,960
protection um some of you are probably

901
00:33:53,190 --> 00:33:50,720
very aware of what this is but some of

902
00:33:54,870 --> 00:33:53,200
you may not um so this is the practice

903
00:33:57,750 --> 00:33:54,880
of understanding and limiting

904
00:33:59,830 --> 00:33:57,760
terrestrial biological contamination

905
00:34:01,590 --> 00:33:59,840
throughout the solar system and making

906
00:34:03,190 --> 00:34:01,600
sure that we're protecting earth

907
00:34:05,590 --> 00:34:03,200
from possible life forms that could be

908
00:34:08,230 --> 00:34:05,600
returned on all of our awesome sample

909
00:34:09,990 --> 00:34:08,240
return missions um so we're interested

910
00:34:11,990 --> 00:34:10,000
in both carefully controlling that

911
00:34:13,909 --> 00:34:12,000
forward contamination so terrestrial

912
00:34:16,710 --> 00:34:13,919
life going out in the solar system as

913
00:34:21,750 --> 00:34:16,720

well as any potential to bring life back

914
00:34:26,950 --> 00:34:23,750
so um the planetary protection research

915
00:34:29,589 --> 00:34:26,960
program is um one of our psd rna

916
00:34:32,069 --> 00:34:29,599
programs that is all about enabling uh

917
00:34:33,990 --> 00:34:32,079
our missions to meet those planetary

918
00:34:36,310 --> 00:34:34,000
protection requirements so we're really

919
00:34:38,310 --> 00:34:36,320
interested in supporting research as

920
00:34:41,510 --> 00:34:38,320
well as technology development that is

921
00:34:44,069 --> 00:34:41,520
going to help our missions um you know

922
00:34:45,909 --> 00:34:44,079
do planetary protection um so we've

923
00:34:48,550 --> 00:34:45,919
really been working on

924
00:34:51,109 --> 00:34:48,560
getting this program uh expanded uh

925
00:34:53,750 --> 00:34:51,119
these past few years um we're trying to

926
00:34:55,430 --> 00:34:53,760
get more regular calls um and i really

927
00:34:57,589 --> 00:34:55,440
would just like to plug that you know i

928
00:34:58,710 --> 00:34:57,599
think a lot of you in the astrobiology

929
00:35:00,550 --> 00:34:58,720
community

930
00:35:02,790 --> 00:35:00,560
have the right skills and the right sort

931
00:35:04,470 --> 00:35:02,800
of mentality to apply those to some

932
00:35:05,829 --> 00:35:04,480
planetary protection

933
00:35:07,270 --> 00:35:05,839
questions and so i just want to

934
00:35:10,150 --> 00:35:07,280
encourage you

935
00:35:13,349 --> 00:35:10,160
and your colleagues to apply to the the

936
00:35:15,349 --> 00:35:13,359
ppr program um the non-mandatory notice

937
00:35:18,069 --> 00:35:15,359
of intents are due in june and the

938
00:35:20,310 --> 00:35:18,079

proposals will be due in july

939
00:35:22,390 --> 00:35:20,320
and we are hoping that we start a more

940
00:35:24,230 --> 00:35:22,400
annual cadence um to this particular

941
00:35:27,030 --> 00:35:24,240
program so looking forward to seeing

942
00:35:29,270 --> 00:35:27,040
some of your proposals

943
00:35:36,870 --> 00:35:29,280
and with that i think i pass it back to

944
00:35:36,880 --> 00:35:46,150
you're on mute mary

945
00:35:49,750 --> 00:35:47,670
my dogs are having a bit of a scuffle

946
00:35:51,829 --> 00:35:49,760
here sorry about that yes so i'm going

947
00:35:53,510 --> 00:35:51,839
to talk about icar it's our newest

948
00:35:55,430 --> 00:35:53,520
program it's interdisciplinary

949
00:35:57,190 --> 00:35:55,440
interdisciplinary consortium for us to

950
00:35:59,670 --> 00:35:57,200
biology research

951
00:36:00,950 --> 00:35:59,680
it was first solicited uh three years

952
00:36:04,150 --> 00:36:00,960
ago

953
00:36:06,310 --> 00:36:04,160
it's the second solicitation and the

954
00:36:08,550 --> 00:36:06,320
announcement for it just came out today

955
00:36:10,390 --> 00:36:08,560
so um

956
00:36:12,069 --> 00:36:10,400
i wanted to be able to announce it at

957
00:36:14,230 --> 00:36:12,079
this meeting without you rushing off to

958
00:36:16,710 --> 00:36:14,240
start writing and we've given you i

959
00:36:19,750 --> 00:36:16,720
think a lot of time for prep the step

960
00:36:21,430 --> 00:36:19,760
ones are due september 15th of 2022.

961
00:36:24,230 --> 00:36:21,440
they're a little bit more involved than

962
00:36:27,190 --> 00:36:24,240
some of our step ones it they're about

963
00:36:29,670 --> 00:36:27,200

five pages and they will be reviewed and

964
00:36:32,230 --> 00:36:29,680
encouraged or discouraged for submission

965
00:36:33,109 --> 00:36:32,240
of a step two which is due in january

966
00:36:38,230 --> 00:36:33,119
10th

967
00:36:41,589 --> 00:36:38,240
the selections we expect will be

968
00:36:43,829 --> 00:36:41,599
sometime in the late second quarter of

969
00:36:45,670 --> 00:36:43,839
2023 um

970
00:36:47,829 --> 00:36:45,680
uh what will be selected and with start

971
00:36:49,430 --> 00:36:47,839
dates maybe is as soon as that but we'll

972
00:36:51,510 --> 00:36:49,440
see how that goes we always have to wait

973
00:36:53,430 --> 00:36:51,520
for funding to come in but that's our

974
00:36:56,069 --> 00:36:53,440
intent the areas of research to be

975
00:36:57,829 --> 00:36:56,079
solicited this time are all five that

976
00:37:00,630 --> 00:36:57,839
are of the topics that are related to

977
00:37:02,550 --> 00:37:00,640
our rcns and for those of you that don't

978
00:37:05,190 --> 00:37:02,560
know but many of you have seen us

979
00:37:06,710 --> 00:37:05,200
present to you about how uh the rcns

980
00:37:09,270 --> 00:37:06,720
relate to the research that the

981
00:37:11,910 --> 00:37:09,280
astrobiology program funds we have an

982
00:37:13,829 --> 00:37:11,920
rcn that uh covers

983
00:37:15,589 --> 00:37:13,839
the emergence of life and prebiotic

984
00:37:17,190 --> 00:37:15,599
chemistry in early earth environments

985
00:37:19,670 --> 00:37:17,200
which is the fourth one down on this

986
00:37:21,430 --> 00:37:19,680
list we have one that now that is

987
00:37:23,430 --> 00:37:21,440
starting

988
00:37:25,510 --> 00:37:23,440

just actually had its launch today we're

989
00:37:27,589 --> 00:37:25,520
very excited about it and that's about

990
00:37:30,390 --> 00:37:27,599
primitive cells to multicellularity the

991
00:37:32,950 --> 00:37:30,400
rcn life is about the evolution of life

992
00:37:34,950 --> 00:37:32,960
we also um the other main goal of the

993
00:37:36,870 --> 00:37:34,960
astrology program is to search for life

994
00:37:40,230 --> 00:37:36,880
elsewhere and so biosignatures in life

995
00:37:43,109 --> 00:37:40,240
detection is the rcn enfold and then we

996
00:37:44,950 --> 00:37:43,119
have um two rcns that are focused on

997
00:37:49,030 --> 00:37:44,960
priority

998
00:37:50,630 --> 00:37:49,040
research areas for upcoming missions so

999
00:37:53,510 --> 00:37:50,640
lori mentioned that we are have the

1000
00:37:55,589 --> 00:37:53,520
europa clipper there's some information

1001
00:37:58,310 --> 00:37:55,599
um or there's some real interest in

1002
00:38:00,870 --> 00:37:58,320
going back to enceladus and at least

1003
00:38:03,750 --> 00:38:00,880
examining the plume maybe even orbiting

1004
00:38:05,109 --> 00:38:03,760
and landing um sending possibly another

1005
00:38:07,190 --> 00:38:05,119
mission back after we collect

1006
00:38:09,190 --> 00:38:07,200
information about europa but we're very

1007
00:38:11,430 --> 00:38:09,200
interested in ocean worlds

1008
00:38:14,069 --> 00:38:11,440
and this rcn brings together planetary

1009
00:38:17,510 --> 00:38:14,079
and earth scientists and then of course

1010
00:38:19,349 --> 00:38:17,520
um we launched uh jwst we're starting to

1011
00:38:21,349 --> 00:38:19,359
get data back from

1012
00:38:23,510 --> 00:38:21,359
from that telescope and there are great

1013
00:38:26,150 --> 00:38:23,520

ideas that have been endorsed

1014
00:38:29,270 --> 00:38:26,160
in the astrophysics and astronomy

1015
00:38:30,790 --> 00:38:29,280
decadal survey um for outfitting a space

1016
00:38:33,430 --> 00:38:30,800
telescope that can look at the

1017
00:38:35,190 --> 00:38:33,440
atmospheres of other uh of exoplanets

1018
00:38:35,910 --> 00:38:35,200
and actually really look for earth and

1019
00:38:38,630 --> 00:38:35,920
so

1020
00:38:40,310 --> 00:38:38,640
um nexus is the rcn that has to do with

1021
00:38:42,630 --> 00:38:40,320
habitability and detection of life on

1022
00:38:44,230 --> 00:38:42,640
exoplanets so proposals that are

1023
00:38:45,990 --> 00:38:44,240
responsive to the topics that are

1024
00:38:47,109 --> 00:38:46,000
covered by that

1025
00:38:48,310 --> 00:38:47,119
are

1026
00:38:49,589 --> 00:38:48,320
solicited

1027
00:38:54,630 --> 00:38:49,599
and

1028
00:38:56,230 --> 00:38:54,640
community has um in these areas to

1029
00:39:00,150 --> 00:38:56,240
propose because as i mentioned this is a

1030
00:39:01,670 --> 00:39:00,160
super exciting time um and um but we

1031
00:39:04,150 --> 00:39:01,680
need to get ready for it we have a lot

1032
00:39:06,870 --> 00:39:04,160
of work to do a lot of research to do

1033
00:39:08,950 --> 00:39:06,880
uh next slide please

1034
00:39:11,349 --> 00:39:08,960
i'm only going to say a couple of things

1035
00:39:13,829 --> 00:39:11,359
about mission related calls that we have

1036
00:39:16,310 --> 00:39:13,839
so there will be a europa science call

1037
00:39:17,910 --> 00:39:16,320
it's going to be run as a dapper which

1038
00:39:21,750 --> 00:39:17,920

we already talked about how the dual

1039
00:39:24,550 --> 00:39:21,760
anonymous uh reviews are um are handled

1040
00:39:27,829 --> 00:39:24,560
uh it's europa science as in science

1041
00:39:30,230 --> 00:39:27,839
that is linked directly to the research

1042
00:39:32,390 --> 00:39:30,240
goals of the europa clipper

1043
00:39:35,030 --> 00:39:32,400
mission we also have programs for

1044
00:39:38,470 --> 00:39:35,040
participating scientists and those are

1045
00:39:40,950 --> 00:39:38,480
usually programs that are run after

1046
00:39:42,870 --> 00:39:40,960
a mission has been in operation for a

1047
00:39:43,910 --> 00:39:42,880
while so keep an eye out for any of the

1048
00:39:46,790 --> 00:39:43,920
missions

1049
00:39:48,550 --> 00:39:46,800
that have been um described by lori that

1050
00:39:50,710 --> 00:39:48,560
have astrobiological

1051
00:39:52,069 --> 00:39:50,720
content and interest

1052
00:39:53,510 --> 00:39:52,079
for once they're up and going an

1053
00:39:55,670 --> 00:39:53,520
opportunity even if you weren't part of

1054
00:39:58,069 --> 00:39:55,680
the original proposing team

1055
00:40:00,470 --> 00:39:58,079
to get involved and i mentioned peace

1056
00:40:03,589 --> 00:40:00,480
star to remind you that for the moment

1057
00:40:05,430 --> 00:40:03,599
now given our funding situation that

1058
00:40:08,150 --> 00:40:05,440
pstar will only be

1059
00:40:09,670 --> 00:40:08,160
solicited every other year

1060
00:40:12,069 --> 00:40:09,680
and then to remind you that we have

1061
00:40:13,750 --> 00:40:12,079
technology calls so people you know our

1062
00:40:15,990 --> 00:40:13,760
big challenge in astrobiology is to

1063
00:40:17,270 --> 00:40:16,000

understand biosignatures but also to

1064
00:40:20,630 --> 00:40:17,280
understand

1065
00:40:23,030 --> 00:40:20,640
what kind of instrumentation and sample

1066
00:40:25,030 --> 00:40:23,040
handling and collection systems that we

1067
00:40:26,710 --> 00:40:25,040
need in order to actually

1068
00:40:29,829 --> 00:40:26,720
um

1069
00:40:32,470 --> 00:40:29,839
search for life on other targets

1070
00:40:35,270 --> 00:40:32,480
that we'll be going to so look to

1071
00:40:37,990 --> 00:40:35,280
any early ideas for picasso maturation

1072
00:40:39,670 --> 00:40:38,000
of those ideas and matisse and we have a

1073
00:40:41,589 --> 00:40:39,680
small business call

1074
00:40:43,670 --> 00:40:41,599
to get others that are typically not

1075
00:40:45,829 --> 00:40:43,680
involved in um

1076
00:40:47,670 --> 00:40:45,839
uh you know from the the small business

1077
00:40:50,069 --> 00:40:47,680
community um

1078
00:40:51,910 --> 00:40:50,079
to get involved in this as well

1079
00:40:55,030 --> 00:40:51,920
i'm gonna mention space biology i think

1080
00:40:55,910 --> 00:40:55,040
many of you know that space and physics

1081
00:40:57,750 --> 00:40:55,920
um

1082
00:41:00,069 --> 00:40:57,760
let's see biological and physical

1083
00:41:01,430 --> 00:41:00,079
sciences joined

1084
00:41:04,790 --> 00:41:01,440
smd

1085
00:41:07,270 --> 00:41:04,800
um it is a topic or an area that's

1086
00:41:09,670 --> 00:41:07,280
related to astrobiology

1087
00:41:11,349 --> 00:41:09,680
and to planetary protection

1088
00:41:14,069 --> 00:41:11,359

and we're going to post these slides and

1089
00:41:17,510 --> 00:41:14,079
at the end of the slides um those of us

1090
00:41:19,670 --> 00:41:17,520
that that manage the programs in those

1091
00:41:21,349 --> 00:41:19,680
in those divisions and in those

1092
00:41:23,990 --> 00:41:21,359
and in the specific research programs

1093
00:41:25,670 --> 00:41:24,000
came up with a a nice matrix that sort

1094
00:41:27,510 --> 00:41:25,680
of shows the difference so that when

1095
00:41:29,829 --> 00:41:27,520
you're looking to figure out where your

1096
00:41:31,430 --> 00:41:29,839
research fits we don't want you coming

1097
00:41:33,270 --> 00:41:31,440
to us with something that belongs in

1098
00:41:35,510 --> 00:41:33,280
planetary protection i shouldn't say us

1099
00:41:36,710 --> 00:41:35,520
applying for protection if it belongs in

1100
00:41:38,630 --> 00:41:36,720
exo

1101
00:41:40,550 --> 00:41:38,640
or planetary protection if it belongs in

1102
00:41:42,630 --> 00:41:40,560
space biology so really pay attention to

1103
00:41:44,790 --> 00:41:42,640
those things we are trying to find a

1104
00:41:46,950 --> 00:41:44,800
home for everybody's research now i'm

1105
00:41:49,109 --> 00:41:46,960
going to turn this over to two

1106
00:41:52,950 --> 00:41:49,119
opportunities for early career folks and

1107
00:41:52,960 --> 00:41:55,430
oops

1108
00:41:59,510 --> 00:41:57,349
let's see there we go was having a

1109
00:42:01,750 --> 00:41:59,520
problem thanks mary

1110
00:42:03,510 --> 00:42:01,760
as mary mentioned we have two programs

1111
00:42:04,630 --> 00:42:03,520
uh these are for earlier career folks

1112
00:42:06,630 --> 00:42:04,640
and the important thing here is that

1113
00:42:08,710 --> 00:42:06,640

they sort of reach um they sort of

1114
00:42:10,790 --> 00:42:08,720
across uh different research programs in

1115
00:42:14,950 --> 00:42:10,800
the planetary science division uh the

1116
00:42:17,109 --> 00:42:14,960
first of course is uh c118 or c18 rather

1117
00:42:19,589 --> 00:42:17,119
which is the early career award

1118
00:42:22,470 --> 00:42:19,599
this one for roses 22 the proposals are

1119
00:42:24,470 --> 00:42:22,480
due in december and the point of the

1120
00:42:25,750 --> 00:42:24,480
early career award is to fund

1121
00:42:27,270 --> 00:42:25,760
support research professional

1122
00:42:29,190 --> 00:42:27,280
development and community involvement of

1123
00:42:31,910 --> 00:42:29,200
outstanding early career scientists so

1124
00:42:33,670 --> 00:42:31,920
this is really to fund individuals um

1125
00:42:35,589 --> 00:42:33,680
the eligibility requirements you can see

1126
00:42:37,750 --> 00:42:35,599
them in the call but briefly you have to

1127
00:42:41,510 --> 00:42:37,760
be the pi koai or science pi of a

1128
00:42:43,910 --> 00:42:41,520
relevant program roses 19 or roses 21

1129
00:42:45,510 --> 00:42:43,920
award so it's a an award in one of the

1130
00:42:47,990 --> 00:42:45,520
relevant programs that was selected in

1131
00:42:50,309 --> 00:42:48,000
either of those roses years and you must

1132
00:42:53,510 --> 00:42:50,319
have your terminal degree of january 1st

1133
00:42:55,109 --> 00:42:53,520
2020 2011 or later um and then there's a

1134
00:42:56,470 --> 00:42:55,119
couple other things again you can see

1135
00:42:59,190 --> 00:42:56,480
these in the call

1136
00:43:01,510 --> 00:42:59,200
but briefly it is up to five years uh

1137
00:43:03,589 --> 00:43:01,520
total uh for the award for the proposal

1138
00:43:05,030 --> 00:43:03,599

you have um and no more than two hundred

1139
00:43:05,990 --> 00:43:05,040
thousand total

1140
00:43:08,069 --> 00:43:06,000
um

1141
00:43:09,670 --> 00:43:08,079
the other program is for graduate

1142
00:43:11,589 --> 00:43:09,680
students this is the future

1143
00:43:14,309 --> 00:43:11,599
investigators in earth and space science

1144
00:43:16,390 --> 00:43:14,319
and technology or finest uh proposals

1145
00:43:19,589 --> 00:43:16,400
there are due annually in sort of early

1146
00:43:21,670 --> 00:43:19,599
to mid february uh the roses 21 uh

1147
00:43:23,589 --> 00:43:21,680
finest proposals were actually due in

1148
00:43:26,309 --> 00:43:23,599
february on february 11th i believe it

1149
00:43:28,470 --> 00:43:26,319
was uh so this year uh so you should be

1150
00:43:30,230 --> 00:43:28,480
looking for roses 22. that those dates

1151
00:43:31,510 --> 00:43:30,240
will be announced uh probably towards

1152
00:43:33,109 --> 00:43:31,520
the end of this calendar year but you

1153
00:43:34,550 --> 00:43:33,119
can expect they'll be in sort of early

1154
00:43:36,870 --> 00:43:34,560
to mid february

1155
00:43:39,829 --> 00:43:36,880
finest is not a fellowship finance is

1156
00:43:41,750 --> 00:43:39,839
actually a grant um for this pro for

1157
00:43:43,670 --> 00:43:41,760
proposals here you must be a graduate

1158
00:43:46,150 --> 00:43:43,680
student either applied admitted or

1159
00:43:48,790 --> 00:43:46,160
enrolled um at the time of the proposal

1160
00:43:51,030 --> 00:43:48,800
to an accredited us university and you

1161
00:43:53,589 --> 00:43:51,040
must not have been previously awarded a

1162
00:43:55,910 --> 00:43:53,599
finest or the previous award program

1163
00:43:58,230 --> 00:43:55,920

nasa for more than 36 months

1164
00:44:01,190 --> 00:43:58,240
finest are for up to three years and no

1165
00:44:03,910 --> 00:44:01,200
more than 50k per year um and it's

1166
00:44:06,790 --> 00:44:03,920
important to note uh the call was kind

1167
00:44:09,589 --> 00:44:06,800
of really reworked in roses 21 which was

1168
00:44:11,349 --> 00:44:09,599
mostly a reorganization for clarity and

1169
00:44:13,829 --> 00:44:11,359
there wasn't really a change in scope

1170
00:44:15,750 --> 00:44:13,839
very much but um hopefully uh when you

1171
00:44:18,230 --> 00:44:15,760
look at it for roses 22 or when you

1172
00:44:20,630 --> 00:44:18,240
applied for roses 21 you found it a lot

1173
00:44:22,309 --> 00:44:20,640
easier to navigate through and the thing

1174
00:44:24,950 --> 00:44:22,319
to note here these are evaluated for

1175
00:44:26,950 --> 00:44:24,960
merit relevance and research readiness

1176
00:44:29,109 --> 00:44:26,960
research readiness is a relatively new

1177
00:44:31,109 --> 00:44:29,119
criteria it really reflects that these

1178
00:44:32,790 --> 00:44:31,119
are grants they're awarded to research

1179
00:44:34,550 --> 00:44:32,800
and not fellowships which are awarded to

1180
00:44:36,069 --> 00:44:34,560
individuals and this is really to

1181
00:44:38,069 --> 00:44:36,079
account for the difference here in how

1182
00:44:40,150 --> 00:44:38,079
we review other programs which evaluate

1183
00:44:41,349 --> 00:44:40,160
qualifications of the team we understand

1184
00:44:42,870 --> 00:44:41,359
that graduate students may not

1185
00:44:44,470 --> 00:44:42,880
necessarily have all of the

1186
00:44:46,309 --> 00:44:44,480
qualifications to do the research when

1187
00:44:47,829 --> 00:44:46,319
they propose but research readiness

1188
00:44:49,670 --> 00:44:47,839

allows them to say i'll be taking this

1189
00:44:51,589 --> 00:44:49,680
course in year two or whatever that will

1190
00:44:53,750 --> 00:44:51,599
help me do that research so that's the

1191
00:44:56,230 --> 00:44:53,760
early career award and finest and i will

1192
00:44:57,910 --> 00:44:56,240
be passing it next back to mary to tell

1193
00:45:03,349 --> 00:44:57,920
us a little bit about astrobiology

1194
00:45:07,109 --> 00:45:05,030
so we wanted to take this opportunity

1195
00:45:10,069 --> 00:45:07,119
not only to talk about funding but to

1196
00:45:12,390 --> 00:45:10,079
remind you of other ways that

1197
00:45:14,230 --> 00:45:12,400
are important not only to us but i think

1198
00:45:16,230 --> 00:45:14,240
important for

1199
00:45:18,309 --> 00:45:16,240
your own careers in research and getting

1200
00:45:21,750 --> 00:45:18,319
involved in nasa for ways to get

1201
00:45:23,670 --> 00:45:21,760
information um that is presented that

1202
00:45:26,150 --> 00:45:23,680
that's available for you to see sort of

1203
00:45:28,390 --> 00:45:26,160
how things evolve before they get sprung

1204
00:45:30,309 --> 00:45:28,400
on you uh and also ways for you to get

1205
00:45:33,030 --> 00:45:30,319
your ideas out there so that we can hear

1206
00:45:34,790 --> 00:45:33,040
what you're interested in as as well and

1207
00:45:35,750 --> 00:45:34,800
so we have a list of things that we came

1208
00:45:37,990 --> 00:45:35,760
up with

1209
00:45:39,589 --> 00:45:38,000
um one of them is to remind you guys

1210
00:45:42,069 --> 00:45:39,599
that there's a space studies board

1211
00:45:43,430 --> 00:45:42,079
committee on astrobiology and planetary

1212
00:45:45,270 --> 00:45:43,440
science

1213
00:45:47,349 --> 00:45:45,280

this is a caps meeting they meet at

1214
00:45:50,550 --> 00:45:47,359
least twice a year sometimes they've met

1215
00:45:52,950 --> 00:45:50,560
more frequently with special topics um

1216
00:45:54,390 --> 00:45:52,960
you know you should sign up because they

1217
00:45:56,069 --> 00:45:54,400
they seem like they're kind of secretive

1218
00:45:57,750 --> 00:45:56,079
they kind of spring us on us every once

1219
00:46:00,309 --> 00:45:57,760
in a while when we're not quite

1220
00:46:01,750 --> 00:46:00,319
expecting but if you sign up to the um

1221
00:46:04,069 --> 00:46:01,760
the mailing list they'll let you know

1222
00:46:06,150 --> 00:46:04,079
when it is and you can listen in and by

1223
00:46:07,910 --> 00:46:06,160
all means if the national academy comes

1224
00:46:09,910 --> 00:46:07,920
to you and asks you to serve as a

1225
00:46:12,069 --> 00:46:09,920
representative of the astrobiology

1226
00:46:13,109 --> 00:46:12,079
community please say yes this is a

1227
00:46:15,750 --> 00:46:13,119
really

1228
00:46:17,589 --> 00:46:15,760
important committee for us um

1229
00:46:20,790 --> 00:46:17,599
to interact with and to get a

1230
00:46:22,550 --> 00:46:20,800
representation from astrobiology on it

1231
00:46:25,190 --> 00:46:22,560
there's also the planetary sciences

1232
00:46:27,190 --> 00:46:25,200
division advisory committee um the way

1233
00:46:28,870 --> 00:46:27,200
we handle that is you nominate yourself

1234
00:46:30,550 --> 00:46:28,880
we have a call

1235
00:46:32,710 --> 00:46:30,560
pretty much every year because we have

1236
00:46:34,309 --> 00:46:32,720
people rotating on and off

1237
00:46:36,790 --> 00:46:34,319
um and

1238
00:46:38,470 --> 00:46:36,800

this is again a uh one

1239
00:46:39,990 --> 00:46:38,480
an advisory committee that meets a

1240
00:46:42,950 --> 00:46:40,000
couple times a year

1241
00:46:45,109 --> 00:46:42,960
you interact more closely with um

1242
00:46:46,710 --> 00:46:45,119
with of course laurie and stephen

1243
00:46:47,829 --> 00:46:46,720
reinhardt who's the head of the rna

1244
00:46:50,230 --> 00:46:47,839
program

1245
00:46:52,630 --> 00:46:50,240
uh it's an opportunity to interact with

1246
00:46:55,589 --> 00:46:52,640
the leads on missions and mission you

1247
00:46:57,670 --> 00:46:55,599
know mission lines um it's a really um

1248
00:46:59,510 --> 00:46:57,680
of course those are also uh have a

1249
00:47:01,349 --> 00:46:59,520
public component to it you can listen in

1250
00:47:02,710 --> 00:47:01,359
on those but nominate yourself and get

1251
00:47:07,270 --> 00:47:02,720
involved

1252
00:47:10,150 --> 00:47:07,280
there's also the ads so there is um

1253
00:47:12,470 --> 00:47:10,160
an assessment group for for mars

1254
00:47:16,069 --> 00:47:12,480
exploration for outer planets for small

1255
00:47:18,710 --> 00:47:16,079
bodies and for exoplanets and this is um

1256
00:47:20,390 --> 00:47:18,720
again a great place to hear what your

1257
00:47:22,710 --> 00:47:20,400
colleagues are working on find out what

1258
00:47:24,790 --> 00:47:22,720
other people in your area are doing what

1259
00:47:26,549 --> 00:47:24,800
ideas are out there for missions and big

1260
00:47:27,670 --> 00:47:26,559
science questions to these various

1261
00:47:29,030 --> 00:47:27,680
bodies

1262
00:47:31,430 --> 00:47:29,040
um

1263
00:47:33,829 --> 00:47:31,440

and there's an opportunity again to get

1264
00:47:35,750 --> 00:47:33,839
involved yourself um one of the things

1265
00:47:37,030 --> 00:47:35,760
that our rcn

1266
00:47:38,790 --> 00:47:37,040
steering committee members have been

1267
00:47:41,430 --> 00:47:38,800
doing is attending these meetings more

1268
00:47:43,910 --> 00:47:41,440
and more to make sure that rather than

1269
00:47:46,309 --> 00:47:43,920
have astrobiology as an afterthought or

1270
00:47:49,030 --> 00:47:46,319
a tangential you're actually involved in

1271
00:47:51,270 --> 00:47:49,040
these ideas as as they get formulated

1272
00:47:52,549 --> 00:47:51,280
and then presented to

1273
00:47:55,030 --> 00:47:52,559
our leadership

1274
00:47:58,150 --> 00:47:55,040
um or to the rest of the community

1275
00:47:59,829 --> 00:47:58,160
um we have the rcns uh affiliate uh

1276
00:48:01,990 --> 00:47:59,839
memberships if you aren't actually a

1277
00:48:03,750 --> 00:48:02,000
steering committee just want to remind

1278
00:48:05,829 --> 00:48:03,760
you that the steering committee we have

1279
00:48:07,190 --> 00:48:05,839
leads for each of these we have and

1280
00:48:09,349 --> 00:48:07,200
we're going to go through that and i

1281
00:48:10,549 --> 00:48:09,359
think i'll do that now if that's okay

1282
00:48:12,309 --> 00:48:10,559
let's go through the

1283
00:48:16,230 --> 00:48:12,319
the rcns lindsey and then i can come

1284
00:48:21,109 --> 00:48:18,710
so i'm starting with the very first one

1285
00:48:23,510 --> 00:48:21,119
that we ever stood up we have the nexus

1286
00:48:26,309 --> 00:48:23,520
for exoplanet system science

1287
00:48:27,750 --> 00:48:26,319
uh below at the bottom you can see the

1288
00:48:30,390 --> 00:48:27,760

uh the leads

1289
00:48:34,549 --> 00:48:30,400
as long as you have a

1290
00:48:36,390 --> 00:48:34,559
a funded proposal with nasa um you're

1291
00:48:37,510 --> 00:48:36,400
considered a member of the steering

1292
00:48:40,549 --> 00:48:37,520
committee

1293
00:48:43,910 --> 00:48:40,559
um and and you helped shape the

1294
00:48:46,150 --> 00:48:43,920
activities of this rcn and then they

1295
00:48:48,150 --> 00:48:46,160
have a an enormous list of affiliate

1296
00:48:51,270 --> 00:48:48,160
members and that's how we engage our

1297
00:48:53,670 --> 00:48:51,280
international partners uh and any other

1298
00:48:55,589 --> 00:48:53,680
uh individuals that don't necessarily

1299
00:48:58,069 --> 00:48:55,599
have funding for nasa but might have

1300
00:48:58,950 --> 00:48:58,079
funding for nsf uh to be involved in

1301
00:49:00,309 --> 00:48:58,960
this

1302
00:49:02,950 --> 00:49:00,319
um

1303
00:49:04,630 --> 00:49:02,960
it's really important okay i guess we're

1304
00:49:06,870 --> 00:49:04,640
going on that's fine we can we can go to

1305
00:49:08,630 --> 00:49:06,880
the next one move me along that's great

1306
00:49:10,069 --> 00:49:08,640
then we have the network for life

1307
00:49:11,430 --> 00:49:10,079
detection and i should have called out

1308
00:49:12,950 --> 00:49:11,440
everybody's name on the last one so

1309
00:49:14,790 --> 00:49:12,960
heather graham is a colleague tori

1310
00:49:16,710 --> 00:49:14,800
holler and brittany schmidt

1311
00:49:18,309 --> 00:49:16,720
um this is about advancing the science

1312
00:49:20,230 --> 00:49:18,319
and technology that is going to be

1313
00:49:22,230 --> 00:49:20,240

required for the search for evidence of

1314
00:49:25,349 --> 00:49:22,240
life beyond earth i mentioned this is

1315
00:49:27,270 --> 00:49:25,359
that search for life rcn that we have

1316
00:49:30,470 --> 00:49:27,280
uh and both you know didn't mention

1317
00:49:32,230 --> 00:49:30,480
before but but um all of the rcns

1318
00:49:34,230 --> 00:49:32,240
have coordinated workshops and what not

1319
00:49:35,750 --> 00:49:34,240
to to engage the community that is one

1320
00:49:39,430 --> 00:49:35,760
of their goals

1321
00:49:43,349 --> 00:49:41,829
we have pce3 prebiotic chemistry and

1322
00:49:45,109 --> 00:49:43,359
early earth environments with karen

1323
00:49:47,589 --> 00:49:45,119
rodgers lauren williams who i know are

1324
00:49:49,750 --> 00:49:47,599
at the meeting i think tim lyons flew in

1325
00:49:51,030 --> 00:49:49,760
today and unfortunately rahm isn't there

1326
00:49:53,430 --> 00:49:51,040
in person

1327
00:49:55,829 --> 00:49:53,440
but he is one of our cardboard cutouts

1328
00:49:57,430 --> 00:49:55,839
so go have your picture taken with him

1329
00:49:59,030 --> 00:49:57,440
um and i actually would love it if you

1330
00:50:00,870 --> 00:49:59,040
would all go around getting your picture

1331
00:50:02,950 --> 00:50:00,880
take doing selfies with these and then

1332
00:50:05,030 --> 00:50:02,960
send them to us at the program or me

1333
00:50:07,190 --> 00:50:05,040
personally um it would be really fun to

1334
00:50:09,750 --> 00:50:07,200
see all of you there so this is about

1335
00:50:11,190 --> 00:50:09,760
the earliest planetary formation the

1336
00:50:13,510 --> 00:50:11,200
evolution of the near surface

1337
00:50:15,030 --> 00:50:13,520
inventories and geological settings and

1338
00:50:18,549 --> 00:50:15,040

building blocks that were available for

1339
00:50:20,630 --> 00:50:18,559
prebiotic complexity to emerge and

1340
00:50:22,950 --> 00:50:20,640
basically uh peering into the paths with

1341
00:50:24,870 --> 00:50:22,960
today's biochemistry

1342
00:50:27,190 --> 00:50:24,880
in all of these you can see that there

1343
00:50:31,750 --> 00:50:27,200
are overlaps between other programs at

1344
00:50:33,430 --> 00:50:31,760
nasa this particular program um is is

1345
00:50:35,910 --> 00:50:33,440
also includes people from our emerging

1346
00:50:37,829 --> 00:50:35,920
worlds in planetary sciences and we also

1347
00:50:43,670 --> 00:50:37,839
work with people at nsf in this

1348
00:50:46,309 --> 00:50:45,190
then there's the network for ocean

1349
00:50:47,109 --> 00:50:46,319
worlds

1350
00:50:49,270 --> 00:50:47,119
um

1351
00:50:52,630 --> 00:50:49,280
so the names aren't on there but allison

1352
00:50:54,069 --> 00:50:52,640
is in the top kevin orrigo is just below

1353
00:50:56,230 --> 00:50:54,079
her and then there's alyssa rhoden and

1354
00:50:58,390 --> 00:50:56,240
chris german and i think i believe

1355
00:51:00,710 --> 00:50:58,400
alyssa and um

1356
00:51:03,190 --> 00:51:00,720
and no sorry i think uh

1357
00:51:05,190 --> 00:51:03,200
chris and allison are there so this is

1358
00:51:08,150 --> 00:51:05,200
about looking at the physical processes

1359
00:51:11,670 --> 00:51:08,160
by geochemical cycles

1360
00:51:14,950 --> 00:51:11,680
exploring earth analogs to understand

1361
00:51:16,790 --> 00:51:14,960
properties and processes and technology

1362
00:51:19,270 --> 00:51:16,800
development

1363
00:51:23,190 --> 00:51:19,280

make sure you look forward to an ocean

1364
00:51:25,109 --> 00:51:23,200
world analog coming to you october 28 22

1365
00:51:28,309 --> 00:51:25,119
uh sometime probably around the 13th to

1366
00:51:30,630 --> 00:51:28,319
the 15th in denver

1367
00:51:33,430 --> 00:51:30,640
next

1368
00:51:35,670 --> 00:51:33,440
and then ta-da this is our last

1369
00:51:37,750 --> 00:51:35,680
one we've had several slides coming soon

1370
00:51:39,150 --> 00:51:37,760
and now it has arrived

1371
00:51:41,430 --> 00:51:39,160
life from early cells to

1372
00:51:44,470 --> 00:51:41,440
multicellularity the fifth of our five

1373
00:51:48,309 --> 00:51:44,480
rcns with ariel ambar batul

1374
00:51:50,309 --> 00:51:48,319
kashar frank rosensweig and mary drozier

1375
00:51:52,150 --> 00:51:50,319
you'll see them bopping around the

1376
00:51:54,390 --> 00:51:52,160
meeting i think actually ariel isn't

1377
00:51:57,109 --> 00:51:54,400
here but he was uh had a coffee break

1378
00:52:00,230 --> 00:51:57,119
with you guys this morning um

1379
00:52:01,829 --> 00:52:00,240
if we can't understand what life um has

1380
00:52:03,270 --> 00:52:01,839
emerged and what it looks like how are

1381
00:52:04,470 --> 00:52:03,280
we gonna be able to find it anywhere

1382
00:52:06,710 --> 00:52:04,480
else so they're going to be looking at

1383
00:52:08,630 --> 00:52:06,720
the establishment of first cells the

1384
00:52:10,470 --> 00:52:08,640
rise of the last universal common

1385
00:52:13,030 --> 00:52:10,480
ancestor

1386
00:52:14,790 --> 00:52:13,040
life's expansion into planetary to a

1387
00:52:16,950 --> 00:52:14,800
planetary scale

1388
00:52:18,470 --> 00:52:16,960

because it is one on earth and

1389
00:52:21,030 --> 00:52:18,480
compartmentalization

1390
00:52:23,109 --> 00:52:21,040
rise of multicellularity and cellular

1391
00:52:25,030 --> 00:52:23,119
differentiation and again this is to

1392
00:52:27,670 --> 00:52:25,040
understand how

1393
00:52:30,069 --> 00:52:27,680
life can take over a planet um so if we

1394
00:52:31,670 --> 00:52:30,079
can that's the end for rcns if we can go

1395
00:52:35,109 --> 00:52:31,680
back and i'll just finish up a couple of

1396
00:52:35,119 --> 00:52:39,990
sorry to bounce around for you

1397
00:52:45,109 --> 00:52:41,589
oh there we go

1398
00:52:47,990 --> 00:52:45,119
all right um all of these organizations

1399
00:52:51,190 --> 00:52:48,000
hold workshops that we support please

1400
00:52:52,390 --> 00:52:51,200
get engaged intend we've made them i

1401
00:52:53,829 --> 00:52:52,400
don't know what we're going to do we can

1402
00:52:56,150 --> 00:52:53,839
actually travel because doing them

1403
00:52:58,470 --> 00:52:56,160
virtually has worked so well we have

1404
00:53:00,950 --> 00:52:58,480
those that are you know have many levels

1405
00:53:02,470 --> 00:53:00,960
of participation so that we can really

1406
00:53:05,349 --> 00:53:02,480
um get the

1407
00:53:08,309 --> 00:53:05,359
the the most from um from our meeting

1408
00:53:10,390 --> 00:53:08,319
time and the most people involved

1409
00:53:12,790 --> 00:53:10,400
we have workshops where the emphasis is

1410
00:53:14,549 --> 00:53:12,800
on work so this isn't a collection of

1411
00:53:16,390 --> 00:53:14,559
presentations but

1412
00:53:18,150 --> 00:53:16,400
um with all of them what comes out of

1413
00:53:20,230 --> 00:53:18,160

there is some kind of report with some

1414
00:53:21,829 --> 00:53:20,240
findings and observations about the

1415
00:53:25,430 --> 00:53:21,839
state of the research

1416
00:53:27,190 --> 00:53:25,440
or um the state of the uh of our efforts

1417
00:53:29,109 --> 00:53:27,200
to look for

1418
00:53:30,790 --> 00:53:29,119
life i also just want to make you aware

1419
00:53:32,630 --> 00:53:30,800
that the space studies board also has a

1420
00:53:35,109 --> 00:53:32,640
planetary protection

1421
00:53:37,589 --> 00:53:35,119
committee and that's another place that

1422
00:53:39,670 --> 00:53:37,599
certainly if they ask please serve and

1423
00:53:40,950 --> 00:53:39,680
listen in on what they're doing because

1424
00:53:42,950 --> 00:53:40,960
without

1425
00:53:44,870 --> 00:53:42,960
planetary protection and we're kind of

1426
00:53:47,829 --> 00:53:44,880
lost and looking for space for life

1427
00:53:49,190 --> 00:53:47,839
anywhere else on uh beyond earth

1428
00:53:51,910 --> 00:53:49,200
so we're gonna have a couple of people

1429
00:53:53,349 --> 00:53:51,920
introduce themselves and talk about uh

1430
00:53:54,870 --> 00:53:53,359
various things and so the next person

1431
00:54:01,030 --> 00:53:54,880
that's gonna talk is melissa curve and

1432
00:54:05,190 --> 00:54:04,069
hello everybody so um today there this

1433
00:54:07,510 --> 00:54:05,200
today there have been a number of

1434
00:54:09,990 --> 00:54:07,520
sessions about early astro

1435
00:54:11,910 --> 00:54:10,000
program early career opportunities and

1436
00:54:13,190 --> 00:54:11,920
other early career

1437
00:54:14,069 --> 00:54:13,200
programs

1438
00:54:24,790 --> 00:54:14,079

the

1439
00:54:27,349 --> 00:54:24,800
nasa astrobiology program that provides

1440
00:54:29,190 --> 00:54:27,359
travel awards of up to five thousand

1441
00:54:31,349 --> 00:54:29,200
dollars for

1442
00:54:33,510 --> 00:54:31,359
um for research in

1443
00:54:35,190 --> 00:54:33,520
many parts of the world so we have a

1444
00:54:37,349 --> 00:54:35,200
cool map that shows places that

1445
00:54:39,750 --> 00:54:37,359
researchers have gone in in the past so

1446
00:54:42,230 --> 00:54:39,760
this is open to undergraduates and

1447
00:54:43,990 --> 00:54:42,240
graduate students and

1448
00:54:46,710 --> 00:54:44,000
you can find that if you go to

1449
00:54:48,549 --> 00:54:46,720
astrobiology.nasa.gov

1450
00:54:50,829 --> 00:54:48,559
and go to funding and scroll all the way

1451
00:54:52,870 --> 00:54:50,839
to the bottom and there are

1452
00:54:54,870 --> 00:54:52,880
astrobiology specific

1453
00:54:56,309 --> 00:54:54,880
early career opportunities

1454
00:54:59,030 --> 00:54:56,319
similar to that there is the

1455
00:55:00,789 --> 00:54:59,040
astrobiology graduate conference and the

1456
00:55:03,589 --> 00:55:00,799
organizers some of the organizers for

1457
00:55:06,230 --> 00:55:03,599
the 2022 conference are here today

1458
00:55:09,829 --> 00:55:06,240
the conference is scheduled for early

1459
00:55:11,510 --> 00:55:09,839
august it'll be virtual and the

1460
00:55:13,670 --> 00:55:11,520
applications are being accepted for

1461
00:55:17,430 --> 00:55:13,680
about another 10 days so you can get

1462
00:55:21,030 --> 00:55:19,030
there's an international summer school

1463
00:55:23,910 --> 00:55:21,040

and that's another partnership with our

1464
00:55:26,309 --> 00:55:23,920
with a spanish um astrobiology group the

1465
00:55:28,390 --> 00:55:26,319
centro de austrobiologia and i think

1466
00:55:30,150 --> 00:55:28,400
that both directors of the international

1467
00:55:33,910 --> 00:55:30,160
summer school and astrobiology are here

1468
00:55:35,589 --> 00:55:33,920
this week so rosalie lopez for the u.s

1469
00:55:38,069 --> 00:55:35,599
portion so it's about 20 students from

1470
00:55:39,589 --> 00:55:38,079
the u.s and 20 students from europe and

1471
00:55:41,030 --> 00:55:39,599
i believe that victor paro is here

1472
00:55:43,109 --> 00:55:41,040
somewhere

1473
00:55:45,190 --> 00:55:43,119
and that's scheduled for the very end of

1474
00:55:46,870 --> 00:55:45,200
july for a week

1475
00:55:48,789 --> 00:55:46,880
there are early career collaboration

1476
00:55:50,549 --> 00:55:48,799
awards not to be confused with the other

1477
00:55:53,430 --> 00:55:50,559
early career awards

1478
00:55:55,349 --> 00:55:53,440
and this is an opportunity for

1479
00:55:57,990 --> 00:55:55,359
for undergraduates graduate students

1480
00:55:59,190 --> 00:55:58,000
postdocs to travel

1481
00:56:02,549 --> 00:55:59,200
to a

1482
00:56:03,589 --> 00:56:02,559
location either an astrobiology program

1483
00:56:06,789 --> 00:56:03,599
funded

1484
00:56:08,950 --> 00:56:06,799
researcher but to work with somebody

1485
00:56:10,309 --> 00:56:08,960
that is beneficial to their research so

1486
00:56:12,630 --> 00:56:10,319
it can be

1487
00:56:16,710 --> 00:56:12,640
to learn how to use a new instrument it

1488
00:56:18,309 --> 00:56:16,720

can be to test their samples on

1489
00:56:20,789 --> 00:56:18,319
equipment that they don't have in their

1490
00:56:22,470 --> 00:56:20,799
lab it can be to go to a telescope

1491
00:56:24,470 --> 00:56:22,480
so all of this information is where is

1492
00:56:26,549 --> 00:56:24,480
available on the astrobiology program

1493
00:56:29,910 --> 00:56:26,559
website and

1494
00:56:31,910 --> 00:56:29,920
the last is nasa postdoctoral program

1495
00:56:33,910 --> 00:56:31,920
the folks from oak ridge associated

1496
00:56:35,990 --> 00:56:33,920
universities will be here by tomorrow

1497
00:56:39,109 --> 00:56:36,000
and they'll be here for a few days

1498
00:56:41,270 --> 00:56:39,119
the astrobiology program supports 15 you

1499
00:56:43,030 --> 00:56:41,280
typically 15

1500
00:56:47,109 --> 00:56:43,040
post-doctoral fellows for up to two

1501
00:56:48,950 --> 00:56:47,119
years for astrobiology program funded

1502
00:56:51,109 --> 00:56:48,960
researchers and

1503
00:56:53,270 --> 00:56:51,119
there are quite a few npps who are here

1504
00:56:55,109 --> 00:56:53,280
and presenting this week

1505
00:56:57,910 --> 00:56:55,119
one last thing i want to bring up is we

1506
00:57:00,470 --> 00:56:57,920
have a daya team diversity

1507
00:57:03,589 --> 00:57:00,480
equity inclusion and accessibility team

1508
00:57:05,670 --> 00:57:03,599
so the members are myself daniella

1509
00:57:07,510 --> 00:57:05,680
scalise was also the education and

1510
00:57:10,069 --> 00:57:07,520
communication lead but she couldn't be

1511
00:57:11,589 --> 00:57:10,079
here this week aaron granstall who has

1512
00:57:14,789 --> 00:57:11,599
been signing the graphic novels

1513
00:57:16,150 --> 00:57:14,799

downstairs and dr benita bell

1514
00:57:19,270 --> 00:57:16,160
who has been

1515
00:57:22,390 --> 00:57:19,280
our our conduit to the to minority

1516
00:57:25,589 --> 00:57:22,400
serving institutions and hbcus

1517
00:57:27,990 --> 00:57:25,599
so we have if you look back you can you

1518
00:57:30,470 --> 00:57:28,000
may have seen last year a letter to the

1519
00:57:33,829 --> 00:57:30,480
community we've been involved in the

1520
00:57:35,430 --> 00:57:33,839
issues about the about fieldwork

1521
00:57:39,430 --> 00:57:35,440
policies

1522
00:57:42,230 --> 00:57:39,440
we have presented to the decadal group

1523
00:57:43,510 --> 00:57:42,240
on the state of the profession

1524
00:57:45,510 --> 00:57:43,520
and if anybody would like to get

1525
00:57:48,630 --> 00:57:45,520
involved please let us know so my email

1526
00:57:50,470 --> 00:57:48,640
address is melissa.kervin at nasa.gov if

1527
00:57:52,069 --> 00:57:50,480
you'd like to get involved in any data

1528
00:57:54,870 --> 00:57:52,079
issues please let us know and we love

1529
00:58:00,390 --> 00:57:54,880
your input so i think that's about it so

1530
00:58:05,190 --> 00:58:02,230
okay we just have a couple more slides

1531
00:58:06,789 --> 00:58:05,200
and and um so i'll go through those

1532
00:58:08,549 --> 00:58:06,799
well we wanted to make sure that you got

1533
00:58:10,549 --> 00:58:08,559
to see everybody um we mentioned

1534
00:58:12,390 --> 00:58:10,559
daniella scalise who unfortunately can't

1535
00:58:14,309 --> 00:58:12,400
uh isn't joining us she leads our

1536
00:58:16,230 --> 00:58:14,319
communication team

1537
00:58:18,390 --> 00:58:16,240
and one of the most and also our

1538
00:58:20,470 --> 00:58:18,400

education lead as well

1539
00:58:23,109 --> 00:58:20,480
uh one of the most important things that

1540
00:58:25,030 --> 00:58:23,119
she does is the

1541
00:58:27,829 --> 00:58:25,040
science communication guild and if i can

1542
00:58:30,390 --> 00:58:27,839
have that slide very very quickly

1543
00:58:32,309 --> 00:58:30,400
many of you remember that we used to do

1544
00:58:33,109 --> 00:58:32,319
fame lab usa

1545
00:58:35,430 --> 00:58:33,119
um

1546
00:58:37,190 --> 00:58:35,440
we had i think actually the last time we

1547
00:58:40,390 --> 00:58:37,200
were at georgia tech we actually had

1548
00:58:42,069 --> 00:58:40,400
michelle nichols here to host uh the

1549
00:58:46,470 --> 00:58:42,079
fame lab finals

1550
00:58:48,870 --> 00:58:46,480
uh it ended up um spurring a lot of and

1551
00:58:51,589 --> 00:58:48,880
inspiring a lot of different science

1552
00:58:53,270 --> 00:58:51,599
uh communication initiatives

1553
00:58:55,589 --> 00:58:53,280
i have there's a list down here of the

1554
00:58:58,710 --> 00:58:55,599
explainable science talks space in your

1555
00:59:01,910 --> 00:58:58,720
face and all of those are activities

1556
00:59:03,430 --> 00:59:01,920
either trainings workshops

1557
00:59:06,230 --> 00:59:03,440
and

1558
00:59:09,030 --> 00:59:06,240
science uh communication opportunities

1559
00:59:11,510 --> 00:59:09,040
that are hosted by some of our trainees

1560
00:59:13,670 --> 00:59:11,520
uh from fame lab so the communications

1561
00:59:15,430 --> 00:59:13,680
guild is the next step from that we have

1562
00:59:18,069 --> 00:59:15,440
organized or

1563
00:59:20,069 --> 00:59:18,079

should say daniela has organized

1564
00:59:22,150 --> 00:59:20,079
all of the people that are interested in

1565
00:59:24,390 --> 00:59:22,160
communicating whatever your medium is

1566
00:59:27,030 --> 00:59:24,400
and connecting it to the sac and the

1567
00:59:29,670 --> 00:59:27,040
science communication opportunities

1568
00:59:32,549 --> 00:59:29,680
that we have at nasa so

1569
00:59:35,030 --> 00:59:32,559
you may hear from from her in the future

1570
00:59:36,950 --> 00:59:35,040
and again please get involved um can we

1571
00:59:38,470 --> 00:59:36,960
pop back to that last

1572
00:59:40,150 --> 00:59:38,480
slide

1573
00:59:41,670 --> 00:59:40,160
um actually the one other thing i just

1574
00:59:44,390 --> 00:59:41,680
wanted to mention is many of you know

1575
00:59:46,230 --> 00:59:44,400
remember barry bloomberg there's an

1576
00:59:47,589 --> 00:59:46,240
honorary chair for him at the library of

1577
00:59:50,230 --> 00:59:47,599
congress

1578
00:59:52,150 --> 00:59:50,240
this year's chairs are lucas mix who we

1579
00:59:54,549 --> 00:59:52,160
all know and david barron who is

1580
00:59:57,109 --> 00:59:54,559
actually a journalist so they spend six

1581
00:59:59,430 --> 00:59:57,119
months at the at the library of congress

1582
01:00:00,470 --> 00:59:59,440
actually working on

1583
01:00:02,470 --> 01:00:00,480
academic

1584
01:00:04,549 --> 01:00:02,480
issues that relate

1585
01:00:06,549 --> 01:00:04,559
astrobiology exploration in the

1586
01:00:07,990 --> 01:00:06,559
humanities

1587
01:00:10,069 --> 01:00:08,000
and so

1588
01:00:11,670 --> 01:00:10,079

they actually have a podcast that i want

1589
01:00:12,870 --> 01:00:11,680
to put a plug-in for we've been tweeting

1590
01:00:14,150 --> 01:00:12,880
about it

1591
01:00:16,150 --> 01:00:14,160
check it out they've interviewed some

1592
01:00:18,549 --> 01:00:16,160
really interesting people about

1593
01:00:19,589 --> 01:00:18,559
astrobiology and exploration and then

1594
01:00:24,150 --> 01:00:19,599
the final

1595
01:00:26,069 --> 01:00:24,160
is just to remind you you all know that

1596
01:00:28,470 --> 01:00:26,079
our planetary

1597
01:00:29,670 --> 01:00:28,480
science and astrobiology decadal survey

1598
01:00:31,789 --> 01:00:29,680
came out

1599
01:00:34,549 --> 01:00:31,799
um we're digesting the

1600
01:00:37,430 --> 01:00:34,559
777 pages of it you guys saw a great

1601
01:00:38,549 --> 01:00:37,440
presentation by rob and uh ken up over

1602
01:00:40,069 --> 01:00:38,559
lunch

1603
01:00:41,910 --> 01:00:40,079
but i wanted to let you know that there

1604
01:00:43,510 --> 01:00:41,920
are two other decadal surveys you should

1605
01:00:45,829 --> 01:00:43,520
be paying attention to one is the one by

1606
01:00:47,510 --> 01:00:45,839
astrophysics um that was already

1607
01:00:50,230 --> 01:00:47,520
released pathways to discovery and

1608
01:00:52,789 --> 01:00:50,240
astronomy and astrophysics for the 2020s

1609
01:00:54,950 --> 01:00:52,799
there's some very important um

1610
01:00:56,950 --> 01:00:54,960
findings in their recommendations about

1611
01:00:58,789 --> 01:00:56,960
the search for life beyond our solar

1612
01:01:01,030 --> 01:00:58,799
system and then the biological and

1613
01:01:02,870 --> 01:01:01,040

physical sciences are doing um their

1614
01:01:04,870 --> 01:01:02,880
decadal as well and that's expected in

1615
01:01:08,470 --> 01:01:04,880
2023

1616
01:01:11,030 --> 01:01:08,480
and i think then my final slide is

1617
01:01:12,789 --> 01:01:11,040
i am just so pleased and honored to be

1618
01:01:15,349 --> 01:01:12,799
able to share with you

1619
01:01:17,030 --> 01:01:15,359
that uh our very own john barros

1620
01:01:20,789 --> 01:01:17,040
receives the nasa's exceptional

1621
01:01:22,470 --> 01:01:20,799
scientific achievement medal for 2021

1622
01:01:25,589 --> 01:01:22,480
unfortunately he can't be with us at the

1623
01:01:27,349 --> 01:01:25,599
meeting but this was for exceptional

1624
01:01:29,750 --> 01:01:27,359
scientific achievements

1625
01:01:32,470 --> 01:01:29,760
advancing nasa's search for life in the

1626
01:01:34,630 --> 01:01:32,480
universe by expanding our understanding

1627
01:01:37,270 --> 01:01:34,640
of environments in which life can

1628
01:01:38,950 --> 01:01:37,280
originate and thrive and so i would like

1629
01:01:40,950 --> 01:01:38,960
to take this opportunity to give him a

1630
01:01:43,990 --> 01:01:40,960
giant round of applause

1631
01:01:45,910 --> 01:01:44,000
um because it's just an awesome um an

1632
01:01:47,589 --> 01:01:45,920
awesome achievement and i'm so glad that

1633
01:01:50,710 --> 01:01:47,599
we were able to get this medal for him

1634
01:01:54,549 --> 01:01:52,470
people who are there applaud this is

1635
01:01:56,230 --> 01:01:54,559
really great

1636
01:01:57,510 --> 01:01:56,240
i can't hear but i'm hoping you're doing

1637
01:02:12,390 --> 01:01:57,520
that anyway

1638
01:02:17,589 --> 01:02:15,510

sorry so we have time for some questions

1639
01:02:19,190 --> 01:02:17,599
um if you have a question or comment

1640
01:02:21,589 --> 01:02:19,200
you'd like to make please advance to one

1641
01:02:23,829 --> 01:02:21,599
of the standing microphones and i will

1642
01:02:26,630 --> 01:02:23,839
recognize you please don't forget to

1643
01:02:29,270 --> 01:02:26,640
state your name and your affiliation yes

1644
01:02:31,190 --> 01:02:29,280
hi morgan cable jpl thank you all so

1645
01:02:34,309 --> 01:02:31,200
much for being here for those of you who

1646
01:02:37,270 --> 01:02:34,319
dialed in mary can you hear me all right

1647
01:02:39,270 --> 01:02:37,280
oh good okay hi i had two questions uh

1648
01:02:41,109 --> 01:02:39,280
the first one was that you of all

1649
01:02:42,870 --> 01:02:41,119
presented a wealth of information there

1650
01:02:43,910 --> 01:02:42,880
were a couple of workshops i wasn't even

1651
01:02:46,630 --> 01:02:43,920
aware of

1652
01:02:49,349 --> 01:02:46,640
is there one place where all of that is

1653
01:02:51,349 --> 01:02:49,359
sort of captured like a website we could

1654
01:02:52,870 --> 01:02:51,359
go to later on so we don't have to take

1655
01:02:54,150 --> 01:02:52,880
screen grabs of all your beautiful

1656
01:02:56,870 --> 01:02:54,160
slides

1657
01:02:59,029 --> 01:02:56,880
oh my gosh there is an astrobiology

1658
01:03:02,309 --> 01:02:59,039
program website and we have tried to

1659
01:03:04,150 --> 01:03:02,319
make it as navigable as possible we have

1660
01:03:06,950 --> 01:03:04,160
a calendar where we post all the

1661
01:03:09,109 --> 01:03:06,960
workshops we try to advertise them as

1662
01:03:11,670 --> 01:03:09,119
they become known to us

1663
01:03:14,230 --> 01:03:11,680

about registering and signing up

1664
01:03:16,309 --> 01:03:14,240
um we have links on our page i mean we

1665
01:03:18,549 --> 01:03:16,319
have like 60 some pages of frequently

1666
01:03:21,270 --> 01:03:18,559
asked questions about

1667
01:03:22,870 --> 01:03:21,280
our funding opportunities the rcns with

1668
01:03:25,029 --> 01:03:22,880
additional links to get you more

1669
01:03:27,270 --> 01:03:25,039
information or to get you to a human to

1670
01:03:29,510 --> 01:03:27,280
talk about what you need to know and we

1671
01:03:31,109 --> 01:03:29,520
plan on posting these little updates

1672
01:03:32,549 --> 01:03:31,119
just to draw some attention to some

1673
01:03:34,630 --> 01:03:32,559
things that we thought we needed to talk

1674
01:03:36,950 --> 01:03:34,640
about with you here so we'll post these

1675
01:03:38,630 --> 01:03:36,960
slides on that site too that is

1676
01:03:40,789 --> 01:03:38,640
wonderful all right i will definitely

1677
01:03:43,510 --> 01:03:40,799
check that out and my second question if

1678
01:03:47,349 --> 01:03:43,520
i may really quickly is is for lori

1679
01:03:49,510 --> 01:03:47,359
hi so nf5 you know coming out soon-ish

1680
01:03:52,230 --> 01:03:49,520
when when can we expect any potential

1681
01:03:54,870 --> 01:03:52,240
details about oh i don't know cost cap

1682
01:03:57,029 --> 01:03:54,880
and things like that

1683
01:03:58,870 --> 01:03:57,039
that is a great question

1684
01:04:00,950 --> 01:03:58,880
um so yeah the question has to do with

1685
01:04:03,029 --> 01:04:00,960
the new frontiers five call and we've

1686
01:04:05,270 --> 01:04:03,039
indicated that um that is going to be

1687
01:04:08,870 --> 01:04:05,280
moved forward we had you know shifted it

1688
01:04:11,589 --> 01:04:08,880

out to 2024 and now we're um i'm sorry

1689
01:04:13,750 --> 01:04:11,599
yeah 2024 we're now thinking of trying

1690
01:04:16,630 --> 01:04:13,760
to get that released in 2023

1691
01:04:18,789 --> 01:04:16,640
um the schedule that you can expect is

1692
01:04:20,309 --> 01:04:18,799
that there will be an announcement very

1693
01:04:22,710 --> 01:04:20,319
very soon to let you know what the

1694
01:04:24,470 --> 01:04:22,720
schedule is going to look like and so

1695
01:04:26,390 --> 01:04:24,480
the first announcement will really be

1696
01:04:27,829 --> 01:04:26,400
pretty bare bones with just schedule

1697
01:04:30,470 --> 01:04:27,839
information of when you're going to know

1698
01:04:33,190 --> 01:04:30,480
what and when the proposals will be due

1699
01:04:35,109 --> 01:04:33,200
and within that schedule it will contain

1700
01:04:36,710 --> 01:04:35,119
more information about when you will get

1701
01:04:39,190 --> 01:04:36,720
the community announcement that contains

1702
01:04:41,109 --> 01:04:39,200
the details you're actually looking for

1703
01:04:42,789 --> 01:04:41,119
which will include cost cap and other

1704
01:04:43,910 --> 01:04:42,799
parameters that you need to design the

1705
01:04:47,430 --> 01:04:43,920
missions

1706
01:04:56,549 --> 01:04:49,589
how are we handling questions online or

1707
01:05:00,309 --> 01:04:58,710
mary can you see the chat or lindsay can

1708
01:05:02,870 --> 01:05:00,319
you guys see the chat is there any

1709
01:05:05,829 --> 01:05:02,880
questions yeah we have

1710
01:05:07,510 --> 01:05:05,839
yeah we have one question there um

1711
01:05:08,870 --> 01:05:07,520
and mary do you want to answer this one

1712
01:05:11,029 --> 01:05:08,880
i'm also getting a note that we need to

1713
01:05:14,710 --> 01:05:11,039

close down the room um because this

1714
01:05:16,069 --> 01:05:14,720
session is ending now um i uh

1715
01:05:18,069 --> 01:05:16,079
i'm not sure

1716
01:05:20,150 --> 01:05:18,079
do we want to ask the one question we

1717
01:05:21,829 --> 01:05:20,160
have online i think i can see one person

1718
01:05:22,549 --> 01:05:21,839
standing in a microphone can we yeah i

1719
01:05:24,230 --> 01:05:22,559
can

1720
01:05:25,750 --> 01:05:24,240
go with that

1721
01:05:28,549 --> 01:05:25,760
yeah so the question was have you

1722
01:05:31,029 --> 01:05:28,559
contemplated a specific mission rcn one

1723
01:05:34,150 --> 01:05:31,039
that could support astrobiology on all

1724
01:05:35,670 --> 01:05:34,160
on all of nasa's portfolio of missions

1725
01:05:37,510 --> 01:05:35,680
something that could integrate across

1726
01:05:40,390 --> 01:05:37,520
the existing rcns

1727
01:05:42,230 --> 01:05:40,400
um that's a really great it's from uh

1728
01:05:44,150 --> 01:05:42,240
andrew steele at carnegie that's a

1729
01:05:45,349 --> 01:05:44,160
really great idea to consider we

1730
01:05:47,430 --> 01:05:45,359
actually have

1731
01:05:48,829 --> 01:05:47,440
tried to think about the best way to

1732
01:05:51,910 --> 01:05:48,839
integrate across the

1733
01:05:54,150 --> 01:05:51,920
rcns um and

1734
01:05:57,190 --> 01:05:54,160
again one of the ideas that we had had

1735
01:05:59,270 --> 01:05:57,200
was to infuse them into uh s biologists

1736
01:06:00,710 --> 01:05:59,280
into an ag but i think the rcn

1737
01:06:03,109 --> 01:06:00,720
structures might be the way to go so

1738
01:06:06,710 --> 01:06:03,119

that's a great suggestion thank you

1739
01:06:08,950 --> 01:06:06,720
steely and the last question belongs to

1740
01:06:11,829 --> 01:06:08,960
avi mendel nasa goddard it was actually

1741
01:06:13,510 --> 01:06:11,839
quite related to the last question is

1742
01:06:15,910 --> 01:06:13,520
that now that

1743
01:06:18,870 --> 01:06:15,920
exoplanet missions are really becoming

1744
01:06:21,270 --> 01:06:18,880
planetary science missions

1745
01:06:22,950 --> 01:06:21,280
and planetary science usually supports

1746
01:06:26,549 --> 01:06:22,960
interpretation

1747
01:06:29,349 --> 01:06:26,559
of planetary science missions

1748
01:06:32,470 --> 01:06:29,359
and i'm not sure you know the rcn

1749
01:06:34,710 --> 01:06:32,480
question is related but is there a plan

1750
01:06:36,789 --> 01:06:34,720
long term to think about how planetary

1751
01:06:40,230 --> 01:06:36,799
science can begin supporting more

1752
01:06:42,470 --> 01:06:40,240
directly the interpretation of exoplanet

1753
01:06:43,990 --> 01:06:42,480
science coming down from

1754
01:06:49,029 --> 01:06:44,000
non-planetary

1755
01:06:52,150 --> 01:06:50,710
so mary did you want to say anything on

1756
01:06:53,109 --> 01:06:52,160
that one first or would you like me to

1757
01:06:57,510 --> 01:06:53,119
take that

1758
01:06:58,549 --> 01:06:57,520
because i think at your level that we do

1759
01:07:00,549 --> 01:06:58,559
sure

1760
01:07:02,230 --> 01:07:00,559
so thank you for the question avi and

1761
01:07:03,670 --> 01:07:02,240
and you're right i mean the

1762
01:07:05,750 --> 01:07:03,680
what we're seeing is kind of this

1763
01:07:07,990 --> 01:07:05,760

blurring between the divisions right um

1764
01:07:09,910 --> 01:07:08,000
that the the the stove pipes that we

1765
01:07:11,510 --> 01:07:09,920
have become irrelevant at some point

1766
01:07:13,270 --> 01:07:11,520
that the science we need to do is going

1767
01:07:16,470 --> 01:07:13,280
to cross over between the expertise

1768
01:07:19,029 --> 01:07:16,480
that's in astrophysics and in this case

1769
01:07:20,789 --> 01:07:19,039
probably a large mission funded by

1770
01:07:23,430 --> 01:07:20,799
astrophysics but the science is going to

1771
01:07:25,430 --> 01:07:23,440
cross over into into the planetary realm

1772
01:07:26,870 --> 01:07:25,440
where we you know the the planetary

1773
01:07:29,190 --> 01:07:26,880
astrobiology side of the community

1774
01:07:31,670 --> 01:07:29,200
really has the needed expertise

1775
01:07:34,230 --> 01:07:31,680
so you know we are having conversations

1776
01:07:37,510 --> 01:07:34,240
about how we make sure that we have that

1777
01:07:39,190 --> 01:07:37,520
needed expertise at the very beginning

1778
01:07:40,789 --> 01:07:39,200
to make sure that if there are science

1779
01:07:42,710 --> 01:07:40,799
definition teams that we're getting the

1780
01:07:44,470 --> 01:07:42,720
right expertise there

1781
01:07:46,309 --> 01:07:44,480
both from a planetary science

1782
01:07:47,510 --> 01:07:46,319
perspective and also astrobiology

1783
01:07:49,589 --> 01:07:47,520
perspective

1784
01:07:51,589 --> 01:07:49,599
um and then i think you know part of

1785
01:07:55,029 --> 01:07:51,599
that planning as we go forward is going

1786
01:07:57,670 --> 01:07:55,039
to be how do we assure or ensure

1787
01:08:01,589 --> 01:07:57,680
that we we have things in place for for

1788
01:08:02,870 --> 01:08:01,599

planetary science analyses of of data

1789
01:08:05,829 --> 01:08:02,880
you know we're already seeing this the

1790
01:08:10,150 --> 01:08:05,839
other way around um for example working

1791
01:08:10,950 --> 01:08:10,160
with astrophysics right now um to uh you

1792
01:08:13,190 --> 01:08:10,960
know

1793
01:08:14,870 --> 01:08:13,200
think about uh how astrophysics

1794
01:08:16,709 --> 01:08:14,880
community is going to use data from for

1795
01:08:18,070 --> 01:08:16,719
example the neo surveyor mission which

1796
01:08:19,590 --> 01:08:18,080
is the near earth object surveyor

1797
01:08:21,590 --> 01:08:19,600
mission which is a planetary science

1798
01:08:23,510 --> 01:08:21,600
mission to detect and characterize

1799
01:08:25,189 --> 01:08:23,520
near-earth objects but the the

1800
01:08:27,030 --> 01:08:25,199
astrophysics community is also

1801
01:08:29,510 --> 01:08:27,040
interested in those data so we're we're

1802
01:08:31,829 --> 01:08:29,520
looking at ways that we can enable that

1803
01:08:33,669 --> 01:08:31,839
work in the other direction and i'm you

1804
01:08:35,590 --> 01:08:33,679
know optimistic that we're going to find

1805
01:08:37,349 --> 01:08:35,600
good ways to to work the other way as

1806
01:08:44,309 --> 01:08:37,359
well

1807
01:08:46,550 --> 01:08:44,319
interest and attention um