

00:26:38 Woody Sullivan: Good dialling to all!

00:32:46 John Davis: I'm told the host won't allow me to unmute!

01:04:31 Fred Sawyer: Bill - Is it possible to allow recording? I'm getting a message saying the host will not allow it?

01:05:27 Mārtiņš Gills: It seems the host is already recording this event.

01:05:52 alokmukh: can you please drop the website link for us to explore the Alps sundial

01:07:49 Mārtiņš Gills: Zarbula's sundials - [www.sundialatlas.eu/atlas.php?sp=208](http://www.sundialatlas.eu/atlas.php?sp=208)

01:09:48 Blake Nancarrow: noobie question: what is the single diagonal line through the middle?

01:12:37 alokmukh: Need a tutorial to build one of these fantastic sundials :)

01:12:55 Mārtiņš Gills: path of nodus or tip of the gnomon on the equinox days

01:12:58 Steve Lelievre: Roger's Zarbula map is at [https://www.google.com/maps/d/viewer?mid=1Y5XPjHE-R8tIaUtxbF2Np\\_jTveQnlg-h&ll=44.84103107609939%2C6.787926110947029&z=10](https://www.google.com/maps/d/viewer?mid=1Y5XPjHE-R8tIaUtxbF2Np_jTveQnlg-h&ll=44.84103107609939%2C6.787926110947029&z=10)

01:13:16 Mārtiņš Gills: (shadow, of course)

01:13:20 Kurt Niel: Question to the author: Is there any sundial of your presentation available via a live webcam? Asking for my project <https://EarthLAT1200.org>

01:13:54 Blake Nancarrow: ah, declination line

01:16:40 Pete Caldwell: some of these are stunning!

01:20:56 Kurt Niel: A huge sundial by me is visible via <https://Kepleruhr.eu> unfortunately is evening/cloudy here so no shadow...

01:21:42 Kurt Niel: go to > Live-View

01:31:32 Joanna Migdal: if you were going to do it again - what would you do differently - I want to do this in my studio - any tips ! Fantastic

01:37:00 Pete Caldwell: You'll have to repaint it in 4020!

01:37:24 Joanna Migdal: I wonder how much it will cost to do then

01:37:28 Kurt Niel: There will be another garage by 4020!

01:37:39 Alexei Pace: You should have included Ophiuchus :)

01:38:40 Joanna Migdal: loud applause for MMXI

01:38:59 Alok Mukherjee: I have read Newton had constructed a reflection sundial , I wonder if it exists !

01:43:25 Fred Sawyer: Copernicus did an earlier reflection sundial that does still exist - although it is in rather bad shape.

01:44:34 Alok Mukherjee: woow

01:45:10 Pete Caldwell: FANTASTIC!!

01:45:17 Steve Lelievre: Wow!

01:45:23 Jeff Brewer: Best thing ever!

01:45:29 SundialZone: Fantastic details!

01:45:52 Monika L.: Incredible sundial!

01:45:52 Richard Nicholson: i feel i need to repaint my office ceiling now... that's an amazing room

01:45:59 Alok Mukherjee: fantastic work building this garage reflection sundial!

01:46:10 richardthiessen: Is the refraction through the window glass an issue?

01:46:18 Tom Frank - RI, USA: Is the mirror a simple front surface mirror or something else?

01:46:39 jeff.kaiser: do you see reflection drift due to the mirror mounting outside, on wood?

01:47:06 Sara Schechner: Woody, it was great fun to see the work in progress. Beautiful sundial!

01:48:04 Bill Gottesman: What is the issue with the year 4020?

01:48:28 Pete Caldwell: the zodiac will have moved on by one more month due to the precession.

01:49:10 Jeff Brewer: Remarkable creativity and intellect at work here.

01:49:11 Tom Frank - RI, USA: Would placing the mirror inside the window alleviate the issues of the dual panes?

01:49:11 Alexei Pace: Will you include Ophiuchus in your zodiac?

01:49:22 Joanna Migdal: what did you learn from doing it and you would do different

01:49:25 Sara Schechner: Copernicus? Fred did you mean Newton?

01:49:31 Joanna Migdal: differently next time

01:50:25 Mike Moghadam: Woody, is there still a webcam on the sundial of the physics building at the Univ of Washington?

01:50:49 Fred Sawyer: To get a copy of this powerpoint file send an email to [sundial.society@gmail.com](mailto:sundial.society@gmail.com) Read the article in the June issue of The Compendium Download Helmut Sonderegger's free program Sonne to draw one of these dials for your own latitude: <http://www.helson.at/sun.htm>

01:53:24 Marvin Taylor: Roger bailey, are you muted?

01:59:33 Roger Dignard: Great media presentation

02:00:15 Joanna Migdal: please can you explain again how the gnomon looks is it upright? ow thick etc..

02:00:36 Sara Schechner: Here is an article on Copernicus's sundial that involved reflection: <https://arxiv.org/pdf/1712.01875.pdf> Isaac Newton also made a reflecting sundial, according to Waugh (as did Christopher Wren).

02:02:19 Pete Caldwell: is that basically by shortening the gnomon?

02:03:23 FRANK KING - BSS Chairman: Joanna: The gnomon is vertical. It is deemed to be a rod gnomon. Its thickness is up to you.

02:03:55 Joanna Migdal: thank you Frank - this is amazing

02:10:36 Pete Caldwell: that's great!

02:14:38 richardthiessen: Why didn't you use a +ve k value right from the start?

02:18:39 Pete Caldwell: Could you make the gap larger, say between 10 and 2, so you wouldn't need to know the date for more time, if you see what I mean?

02:19:09 Jessica Warren: It's amazing how math can be so beautiful!

02:19:14 maurycovingtonjr: Incredible

02:20:15 Luigi Ghia: Great Fred!

02:20:40 Alok Mukherjee: is there a working model to see how it looks in real ?

02:20:53 Märtinš Gills: Is there any example of an actual Hybrid Peaucellier sundial? A photo?

02:22:32 Bill Visick: Thank you for participating in the BSS Virtual Conference. We are keen to hear your reactions and to

understand if we should run more of these. Please take a few minutes to fill in the survey at <https://www.surveymonkey.co.uk/r/JLKL3CJ> and let us know what you think. One entrant will win a free annual subscription to the BSS!

02:22:33 Jack Aubert: Is this somehow related to the Peaucellier linkage for which he is famous?

02:22:53 Bill Gottesman: Frank, are you going to answer your initial questions?

02:22:54 richardthiessen: Thanks for organizing this. I really enjoyed it.

02:23:07 Jeff Brewer: Thank you very much. It's been wonderful

02:23:09 John Wynne: ...anyone aware of a sidereal time sundial?? john, Oxford

02:23:28 Joanna Migdal: this was perfect

02:23:29 Monika L.: Great idea, I loved it

02:23:35 George Perkins: Will the recording be made available?

02:23:42 maurycovingtonjr: Thank you! Wonderful.

02:23:49 Woody Sullivan: The webcam on the U. of Washington sundial only operated for ~2-3 years - alas it was just too much trouble to keep it going.

02:24:04 Len iMac: Thanks to the BSS and the speakers for a really great Zoom meeting. I loved it.

02:24:24 Sara Schechner: thank you for a great virtual meeting!

02:24:50 Richard Nicholson: Thank you all for the great presentations,

02:25:02 Chris Smail: really interesting must do this again

02:25:05 Mārtiņš Gills: Thanks for the event!

02:25:09 Mike Moghadam: Curt, can you post the URL to the webcam please

02:25:22 joanb: Wonderful meeting, thank you to all!

02:25:40 Adi Prattes: Wi Woody, we met in Austria. do you remember?

02:25:41 Reiner Euler: Thanks also for the event!

02:25:42 Blake Nancarrow: thank you, this was awesome!

02:25:50 David: Thank you for a great presentation.

02:25:56 Ian Maddocks: Thanks for great event!

02:25:57 Kurt Niel: the webcam is at <https://Kepleruhr.eu> go Live-View

02:26:14 Mike Moghadam: Thank you Kurt

02:26:15 Mark T: Super presentation - very interesting and challenging! Thanks all.

02:26:37 Steven Woodbury (Maryland, USA): Thank you so much. A fine program; about the right length. And worth doing it again!

02:26:49 Mike Moghadam: Thank you everyone

02:26:50 Jeff Brewer: Inspiring!