HOPOS 2022

THE INTERNATIONAL SOCIETY FOR THE HISTORY OF PHILOSOPHY OF SCIENCE, BIENNIAL MEETING

20-23 June

PROGRAM BOOKLET
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Welcome

HOPOS

David Stump (President)

On behalf of the HOPOS Steering Committee, welcome to HOPOS 2022 and welcome to Irvine and Southern California. Southern California is important in the history of Logical Empiricism and in the history of the philosophy of science in general, given that Reichenbach and Carnap each taught at UCLA, a sister campus to the University of California, Irvine. HOPOS conferences are back after a hiatus due to the COVID 19 pandemic. We are offering a hybrid format for the first time and hope that all participants, both in person and online, find a stimulating series of talks and a chance to meet up with old friends and to make new ones. Special thanks to the Program Chairs, Flavia Padovani and Gideon Manning and to all the members of the Program Committee for creating an excellent program, and many thanks to the Local Organizing Committee with Jeremy Heis as Chair, for their work setting up the conference. Finally, I would like to thank everyone who submitted abstracts to the conference. Your work is what makes the conference possible. HOPOS as an organization is committed to creating venues for scholarly work in the history of the philosophy of science.

President: David Stump (University of San Francisco)

Vice-President: Zvi Biener (University of Cincinnati)

Past President: Mary Domski (University of New Mexico)

Steering Committee: Katherine Dunlop (University of Texas at Austin); Flavia Padovani (Drexel University); Alison Peterman (University of Rochester); Kirsten Walsh (University of Exeter); Sophie Roux (École Normale Supérieure-Paris); Maarten Van Dyck (Ghent University)
A warm welcome to HOPOS 2022! This is the fourteenth international congress of the International Society for the History of the Philosophy of Science (HOPOS). HOPOS is an institution committed to the highest of scholarly standards aimed at producing accurate and nuanced accounts of the development, context, interpretation, and impact of the philosophy of science that respects the scientific, philosophical, social, and political structures, problems, and relationships informing the philosophy of science. As in years past, the program of HOPOS 2022 reflects the international and diverse community of scholars who share this aim. It also reflects the work of past and present members of the Steering Committee of HOPOS, including its President David Stump. We have been fortunate to collaborate with the local organizers at Irvine and appreciate their wherewithal as we have navigated the Covid-19 pandemic. The members of the Program Committees for “Kant and Before” and for “After Kant” were generous with their time, conscientious in their judgments, and always concerned with how contributions to the conference promote the aims and mission of HOPOS scholarship. On behalf of the Program Committee, welcome to Irvine! Enjoy the weather, banquet, and receptions, but most of all, the talks, sessions, and conversations that we know will make HOPOS 2022 a great success.

**Kant and Before:** Gideon Manning (Chair; Cedars-Sinai Medical Center and Claremont Graduate University), Eva Del Soldato (University of Pennsylvania), Bennett McNulty (University of Minnesota, Minneapolis), Luis Salas (Washington University in St. Louis), Kirsten Walsh (University of Exeter)

**After Kant:** Flavia Padovani (Chair; Drexel University), Elise Crull (The City College of New York), Chris Pincock (Ohio State University), Dana Tulodziecki (Purdue University), Sander Verhaegh (Tilburg University)

**Local Organizing Committee**

*Jeremy Heis (Chair)*

Welcome to Southern California and to UC Irvine! The HOPOS 2022 Local Organizing Committee is delighted to be hosting the HOPOS community here at UC Irvine for its fourteenth biennial meeting (and counting). As most of us (and our respective institutions) are still emerging from the various forms of isolation and separation imposed by Covid, we are especially grateful for this opportunity to gather together in person as well as virtually to talk, listen, and reason together about questions at the heart of our shared academic passions. Thank you for joining us, and we hope you will be able
to enjoy some of the spectacular sights and sounds in the greater Orange County area while you are here, along with the region’s extraordinary natural beauty. Orange County is home to a bustling and diverse community of small cities, from the Hispanic culture of Santa Ana to Garden Grove’s “Little Saigon”, the largest concentration of Vietnamese people outside of Vietnam. You are also located mere minutes by car from the Pacific Ocean (including world-famous beaches and surf spots) and longer but still reasonable drives into surrounding foothills, mountains, and deserts. This area is also home to a wide array of scholars working in a range of HOPOS subjects, and we sincerely hope that this meeting will be a chance to meet new colleagues and make new contacts within the HOPOS community, as well as a chance to renew existing relationships and catch up with old friends. See you at the sessions!

Members: Jim Weatherall, Adam Chin, Bruce Rushing, Renee Raphael, P. Kyle Stanford, Melissa Valdez, Erich Reck (UC Riverside)

General Information

Campus and Rooms

Most activities (except the Reception, Banquet, one Plenary Session, and the sponsored outing to Laguna Beach) will take place in the Social Sciences area of the UC Irvine campus in three buildings: Social Sciences Plaza A (SSPA), Social Sciences Plaza B (SSPB), and the Social & Behavioral Sciences Gateway (SBSG). Parallel sessions will be held in a set of rooms on the Ground and First Floors (accessible via elevator or stairs) of these buildings. Plenary sessions will be held SSPA 1100 (Katherine Brading, Tuesday evening) and in Donald Bren Hall 1600 (Philip van der Eijk, Thursday morning). Coffee breaks will occur in the courtyard outside of SSPA and SBSG. The Main Reception will take place in the conference hotel, the Ayres Costa Mesa, in the Camberley room, while the Banquet will be held on campus, in the University Club. On Wednesday late afternoon shuttle buses will transport interested participants to and from Laguna Beach.

HOPOS 2022 is a hybrid conference, and all rooms have the equipment necessary for the hybrid format. More information is included in the section of this program on the hybrid format. Presenters with slides or handouts must save these files as pdfs so that they can be projected in the in-person rooms and shared with the remote audience via Zoom.

Session chairs should arrive early to their session to coordinate with speakers. Each presenter has 30 minutes total (~20 minutes for the presentation and ~10 minutes for discussion). Signs indicating the time remaining will be in each room for use by the session chair.

All sessions will be streamed via Zoom. Each room will have an ongoing Zoom room (open for the entire day), links to which have been created by members of the LOC and sent to participants registered online. The same Zoom room and links will be used for all days of
the conference; separate Zoom links will be made for the plenary talks. LOC members will attend as many of the talks as possible to help with tech issues, but otherwise session chairs will be expected to manage the Zoom (including fielding questions, making sure screens are shared, etc.) Participants involved in hybrid sessions, where some speakers participate via Zoom, should arrive early to coordinate with all speakers.

Wifi

For WiFi, connect to “UCInet Mobile Access” and follow the instructions to sign in. Additional specifics can be found at https://www.oit.uci.edu/visitor/. Alternatively, for those whose home institutions supports it, eduroam is available.

Registration

Registration must be completed online and is mandatory for all participants and their guests. Please navigate to https://hopos2022.hopos.org/16225776001/78-registration for more information. In-person participants may pick up their nametags and banquet tickets at the opening reception, or at a registration table located in the courtyard outside SBSG 1517. Additional Banquet tickets may be purchased online through the registration storefront (see link above) until 17:00 on Wednesday, June 22.

Navigation

The following pages have a variety of maps to help you navigate UCI and Orange County locations related to HOPOS 2022, including the Ayres Hotel. HOPOS has contracted a shuttle service to provide transportation between the Ayres Hotel and UCI. See the shuttle schedule below in this program. The shuttle will also transport participants to and from Laguna Beach on Wednesday. UCI guest parking is available. The Social Sciences Parking Structure is located closest to the conference venue. The Ayres Hotel does have a shuttle service that can be used to transport guests to and from the airport and within 3 miles of the hotel. Limited spots on the shuttle are available. Taxis and Lyft/Uber services are available as well.

Sponsors

Support for HOPOS 2022 is provided by the University of California, Irvine School of Social Sciences and Department of Logic and Philosophy of Science.

Hybrid Format

HOPOS 2022 is a hybrid conference. All talks, whether given in-person or remotely, will be live streamed over Zoom for online participants. Each room on the campus at UC Irvine will be equipped with a laptop, room microphones, speakers, and cameras. Participants
attending remotely should be able to see and hear the presenters, and will be able to participate actively in discussion along with the in-person participants. Speakers who are presenting remotely will have their video projected onto the screen in the session room and their audio streamed through the room speakers.

Everyone who registers for HOPOS, whether online or in-person, will be emailed zoom links for all parallel and plenary sessions. These links are available only to those who register for the conference and pay the registration fees. Please do not distribute.

Instructions for in-person presentations

Every meeting room on campus will have its own laptop, which will be connected continuously to the projector, camera, and speakers in the room, and will be logged into Zoom. Every presenter will use the room laptop while giving their talk. *(Please do not try to disconnect the room laptop and connect your own computer when it is your turn to give your talk!)* Since every session is being livestreamed continuously on Zoom, please do not log out of Zoom or close Zoom on the room’s computer. Any slides you are using, or handouts you are using, should be available also for the online participants. In order to make this possible, you will need to share your screen through Zoom during your talk. Furthermore, since we cannot switch computers during the sessions, everyone’s slides need to be saved in a uniform format, and will need to be pre-loaded onto the room computer before your session begins. Concretely, this will require:

1. Save your slides or handout in a pdf format.
2. Please send your slides as a pdf to your session chair before the session begins.
3. When you give your talk, keep the zoom window open.
4. When you open your slides during your talk, do so through the Zoom screen sharing function.

Instructions for session chairs

Session chairs will have the standard responsibilities of introducing the speakers, making sure the talks and discussion period stays on schedule, and moderating the discussion period. *In addition, session chairs will have additional responsibilities on account of the hybrid format of the conference.* Specifically, during your session, the session chair will also be a co-host of the online Zoom room. It will also be the session chair’s responsibility to monitor the technology in the room.

*Before your session begins:*

1. Coordinate with the presenters in your session and make sure that you have double-checked to confirm who will be presenting remotely and who will be presenting in-person.
2. Make sure that you have pdfs from every in-person presenter in your session.
Hosting the online Zoom room during the session:

1. During the session, log into the zoom room using your own laptop (or Zoom-enabled tablet).
2. Make sure you are logged into the correct Zoom room. There will be six Zoom rooms: four parallel sessions (Parallel Session Room A, B, C, and D), and two rooms for the two plenary sessions.
3. Set yourself as a co-host when you log on. You can use the room’s laptop (which will always be logged in as the host) to go onto Zoom and set yourself as co-host.
4. Maintain a queue during the discussion period that includes both online and in-person participants.

There will be in-room microphones, so questions asked in the room should be audible to the online audience, as long as the questions are spoken clearly and the technology cooperates. Online participants should also be able to ask questions by turning on their microphones: the laptop in the room on the speaker’s podium will be connected to the room speakers. If not, make sure the audio volume level in the room is turned up (there will be a volume control on the wall next to the speaker’s podium) and that the volume controls on the room laptop are turned up. If all else fails, you can ask online participants to type their questions into the chat.

Monitoring the technology in the room.

Every meeting room on campus will have its own laptop, which will be connected continuously to the projector, camera, and speakers in the room, and will be logged into Zoom. Every presenter will use the room laptop while giving their talk. All of the room equipment should be set up before you arrive.

1. Make sure that the room laptop is never disconnected nor logged out of zoom.
2. If a presenter is remote, please make sure that the room laptop is projecting the video from the Zoom session onto the room’s screen and the audio from the speaker is coming through the room’s speakers. Specifically, make sure that:
   a. The presenter on Zoom has not muted themselves
   b. the room computer’s audio is not muted
   c. the room speakers are turned up to an appropriate level (there will be a volume control on the wall next to the podium).
3. If a presenter is in person, please make sure that their slides are pre-loaded onto the room computer in pdf format and are opened on the room laptop before the session begins, using a basic pdf reader (such as Preview).
4. During the talks, please monitor the presenters to make sure that they are sharing their screen through Zoom, so that the online audience can see their slides as well.
5. Please do not turn anything off when your session ends.
Instructions for remote presentations

Remote speakers will present their talks using Zoom. Those who register for the conference online will receive an email providing the links to the Zoom rooms. There will be six Zoom rooms: four parallel sessions (Parallel Session Room A, B, C, and D), and the two plenary sessions. During remote presentations, the presenter’s video will be projected onto the screen in the session room at UC Irvine for the in-person audience, and their audio will be streamed through the room speakers. The session chairs, who will always be physically present in-person in the session room, will be the hosts of the Zoom room.

Before your session begins:

1. Make sure that your computer is charged, your camera, microphone, and speakers are working, your Zoom software is up to date, and that your internet connection is reliable.
2. Make sure you join the correct Zoom room for your session.
3. Remember that the schedule is set on U.S. Pacific Time.

During your talk:

1. Share your slides or handout using the standard Zoom share screen function.
2. Make sure that what your slides are in a font and font size that will be legible for an in-person audience.
3. The question periods will be moderated by the session chairs.

Food and Dining

There is a fairly wide range of places to eat and drink on and near the UCI campus, a few options that are walkable from the Ayers hotel and a larger range of possibilities accessible by car, taxi, or hotel shuttle.

Breakfast:

The Ayres hotel has a restaurant, with attractive outdoor dining in a courtyard, that opens daily at 6:30 am. There are limited breakfast options within walking distance of the Ayres:

- Coffee Nature $
- VEG’D Vegan $
- Starbucks

Those who take the early shuttle from the hotel to campus will find a complimentary continental breakfast of bagels, pastries, fruit, and coffee. (But if you take the later shuttle, don’t expect anything to be left over!)
**Lunch:**

No lunch is provided on Tuesday or Wednesday. Luckily, there are many places to eat within a short walking distance from campus.

Across a long pedestrian bridge that crosses Campus Dr. just north of the conference location, you will find the University Center, a large collection of shops and (mostly casual) restaurants. A complete listing is available [here](#).

Some highlights: for beer, you want [Eureka](#); for sandwiches, [Le Diplomat](#) or [Mendecino Farms](#); for pizza, [Blaze](#). [In-N-Out Burger](#) is a southern California fast food tradition. There is also a Trader Joe's (grocery) here.

**Dinner:**

Dinner will be provided at the banquet on Thursday, and on Wednesday evening during the campus outing, there will be many dinner options in Laguna Beach (see below). There are plenty of options for Monday and Tuesday night.

The Ayres has a restaurant and bar, with attractive outdoor dining in a courtyard, open until 10 pm daily.

A wide range of further options are walkable or just a short drive from campus or from the Ayres hotel. The following list is certainly not exhaustive but includes some local favorites and places of interest.

Within easy walking distance of the Ayers Hotel:

- [VEG’D Vegan $](#)
- [Hanuman Thai Eatery $$](#) (NOT Vegetarian-Friendly!)

Places a mile or more away from the Ayres Hotel (i.e. not within an enjoyable walking distance):

- [Memphis Soul Café and Bar $$](#)
- [The Lab Anti-Mall](#)
- [Camp](#)

The latter two are complexes of hip restaurants, bars, and boutiques located a mile or so from the hotel. There are lots of options to choose from there. Both provide an authentic (!) Orange County experience.

The Ayres does have a shuttle that guest can use, when available, to drive to places up to 3 miles away. Otherwise, one will need to use an Uber or Lyft.

Near Campus:
In addition to the restaurants in University Center (described above in the lunch options), there are other restaurant districts near campus. Keep in mind, you will need to provide your own transportation to and from these locations.

For delicious Greek fast food (Nick’s), great burgers and sandwiches (The Stand), exciting breakfast/brunch (Stacks Pancake House), high-quality but pricey seafood, steaks, and cocktails (Eddie V’s), and more, head to The Bluffs, a shopping district one mile south of campus. For great American classics, try Champagnes Bistro and Deli located adjacent to The Bluffs.

For Mexican-style tacos (Taquiero Taco Patio), good pizza and beer (Sergeant Pepperoni’s), Persian Ice Cream (Saffron and Rose), and more, head to Campus Plaza, a shopping district adjacent to campus.

Cuisines from all over the world can be found in Orange County, so don’t be afraid to google your favorites!

COVID guidelines

Please Note: The following guidelines are subject to change based on new information and federal, state, and university updates.

We request that all HOPOS 2022 conference participants abide by the following guidelines based on current CDC and University of California, Irvine policies (as of 15 June 2022).

- We strongly recommend that participants wear face coverings when indoors regardless of vaccination status. Face coverings may be removed when outdoors.
- We strongly recommend that participants receive full vaccination, including booster shots as applicable.
- We request that those who are not fully vaccinated test negative for coronavirus within 48 hours prior to arriving at the conference.
- If experiencing symptoms of respiratory illness (including but not limited to fever, cough, and shortness of breath) prior to traveling, we request that you stay home.
- If your temperature exceeds 99 degrees F, as measured by a standard household thermometer, you may not enter any University of California, Irvine facilities.
- If you develop symptoms of respiratory illness or learn of a recent high-risk exposure to someone with confirmed COVID-19, we request that you self-isolate in your hotel room and get tested as soon as possible. In the event that you test positive, we request that you report your results to lps@uci.edu as soon as possible (relevant decontamination, containment, and contact tracing will be carried out by the University).
• If you are not fully vaccinated and learn of a recent high-risk exposure to someone with confirmed COVID-19 or COVID-19 symptoms, you may not enter any University of California, Irvine facilities.
• We request that you remember to wash your hands after eating, dispose of food safely, and cover your mouth when sneezing, coughing, etc.

Please note that if you are traveling to the conference from abroad, the United States government has COVID-specific government regulations on such travel. To ensure that you are in compliance with such regulations, please check with your airline and consult the US Center for Disease Control (CDC) guidelines.

Local Testing Locations:

Several medical centers close to the Ayers Hotel offer COVID-19 testing, including OC Rapid Test and All In One Health (free).

Other free testing locations can be found here; use 92617 as the zip code.

Other locations within Irvine can be found here.

LAX offers two onsite testing locations. Please note that these tests are quite expensive.

SNA offers one onsite testing location. Please note that these tests are quite expensive.

COVID-19 Resources: UC Irvine Visitor Guidance

Outing to Laguna Beach

The UC Irvine campus is located about five miles from the Pacific Ocean, and no trip to Southern California is complete without a trip to the ocean. For this reason, on Wednesday evening, there will be a conference outing to Laguna Beach, which is located on the Pacific Ocean ten miles south of Irvine.
A former artist colony built up between the ocean and steep seaside hills, Laguna Beach is one of the most beautiful seaside communities in California, with walkable streets, stunning beaches, and extraordinary vistas overlooking the ocean. There are no planned activities: conference attendees can spend the time exploring the town and the beaches, eating, and drinking. The town is right up against a beautiful beach that is great for swimming, walking, or exploring the tidepools. Walk the beach barefoot, or even bring your swimsuit and go swimming. (There is a public restroom where there are places to change clothes.) Wear walkable clothes (or even bring your swimsuit). Keep in mind that there will be no way to return to the hotel after the Wednesday sessions end and before the shuttles depart for Laguna Beach. So whatever you are wearing and carrying when you arrive on campus on Wednesday morning will be what you are wearing and carrying when you visit Laguna Beach.

For those less adventurous, one can walk around the town, exploring its public art and its historic bungalows. There are also paved paths providing ocean over looks. The streets of Laguna include boutique shops and art galleries. Of course, there are also many bars, cafes, and restaurants.

Please note that there is no planned dinner for Wednesday evening, so participants will need to make their own dinner plans. Fortunately, there are very many excellent and varied restaurant options in Laguna Beach – much better options than near campus and near the conference hotel.

More information about the outing, with weblinks, is provided on the conference webpage.
Shuttles

Irvine is not a walkable city, and public transportation is inefficient. For this reason, shuttles will be provided to transport participants from the conference hotel (the Ayres, Costa Mesa) onto the UCI campus. In addition, shuttles will transport participants to Laguna Beach on Wednesday evening for the conference outing. All shuttles are free, and hold 48 riders at a time. Please note that if you miss a shuttle, or need to travel to and from campus or the hotel at some other time, you will need to book and pay for a taxi, Uber, or Lyft.

**A note on morning shuttles:** There are about 60 HOPOS participants staying at the conference hotel, and the shuttles hold 48. For this reason, some participants need to ride the early shuttle to campus, which leaves at 7:50 am. As a reward for the early birds, there will be a limited amount of continental breakfast on campus starting at 8:00 am (coffee, bagels, pastries, fruit). The continental breakfast is likely to be gone by the time riders on the late shuttle (8:20 am) arrive. *In addition, if you are giving a talk or moderating in a morning session, please arrive on campus with the early shuttle.* If you arrive with the late shuttle, there may not be enough time to set up your slides and get accustomed to the in room technology.

**A note on shuttles to Laguna Beach:** There will be two buses for the outing to Laguna Beach. Buses will drop off and pick up at the same spot in Laguna Beach. The two buses will depart at different times for participants who would like to stay longer in Laguna Beach.

**A note on shuttles after the banquet:** There will be two shuttle runs on Thursday evening, the first of which will run immediately after the meal is complete, and the second after the banquet officially ends.
<table>
<thead>
<tr>
<th>Day</th>
<th>Departure Time</th>
<th>Departure Location</th>
<th>Arrival Time</th>
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Maps

Conference Locations on Campus
Parallel Session Rooms
From the Ayres Hotel to UC, Irvine
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<th>Tue</th>
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<th>Thu</th>
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<td>Parallel Session 3</td>
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<td>4:00 PM</td>
<td>Coffee Break</td>
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<td>4:30 PM</td>
<td>Plenary Session 1: Katherine Brading SSPA 1100</td>
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<td>5:00 PM</td>
<td>Opening Reception, Ayres Hotel</td>
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<td>6:00 PM</td>
<td>Outing to Laguna Beach</td>
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</table>
Overview of Sessions

Monday 20 June

HOPOS Steering Committee (2:00-5:00): Ayres Hotel, Hastings Room

Reception (5:30-7:00): Ayres Hotel, Camberley Room

Tuesday 21 June

Parallel Session 1 (9:00-10:30)

1A  SBSG 1321  Kant
1B  SBSG 1517  History of Philosophy of Biology
1C  SSPB 1222  SYMPOSIUM: Impossible Being, Intentional Being, and Linguistic Being in Late Medieval Philosophy
1D  SSPA 2112  Weyl, Cassirer, & Geometry

Coffee Break (10:30-11:00)

Parallel Session 2 (11:00-12:30)

2A  SBSG 1321  How to Do Science: Experimentation, Mathematization & Chemistry
2B  SBSG 1517  SYMPOSIUM: Carnapian Explication
2C  SSPB 1222  Whewell
2D  SSPA 2112  Du Châtelet

Lunch Break (12:30-2:00)

Parallel Session 3 (2:00-4:00)

3A  SBSG 1321  Newtonian Themes
3B  SBSG 1517  England & Logical Positivism
3C  SSPB 1222  Neo-Kantian Themes
3D  SSPA 2112  Mary Shepherd (3D1); Non-Concrete Objects (3D2)

Coffee Break (4:00-4:30)

Plenary Session 1, Katherine Brading, “Philosophical Mechanics” (4:30-6:00): SSPA 1100
Wednesday 22 June

Parallel Session 4 (9:00-10:30)

4A SBSG 1321  Bacon
4B SBSG 1517  SYMPOSIUM: Individuating Bodies from Late Scholastic Aristotelian to Cartesian Philosophy
4C SSPB 1222  Measurement, Quantities & Scientific Objects
4D SSPA 2112  Aspects of Pragmatism

Coffee Break (10:30-11:00)

Parallel Session 5 (11:00-12:30)

5A SBSG 1321  Force & Energy
5B SBSG 1517  SYMPOSIUM: Philosophy of Mind as Philosophy of Science: Three Examples from the Late Nineteenth Century
5C SSPB 1222  Early Modern Metaphysics of Space
5D SSPA 2112  Feyerabendian Themes

Business Lunch (12:30-2:00): SBSG 1517

Parallel Session 6 (2:00-3:30)

6A SBSG 1321  Realism, Anti-Realism & Science Fiction
6B SBSG 1517  SYMPOSIUM: Epistemology at Multidimensional Intersections: Federigo Enriques in Context
6C SSPB 1222  Laws, Axioms, & Principles
6D SSPA 2112  Scientific Reasoning & Methodology

Break (3:30-4:00)

Laguna Beach Outing (4:00- ): shuttles depart from campus shuttle stop at 4:00

Shuttles Return to Ayres Hotel (7:45 pm and 9:00 pm)
Thursday 23 June

Parallel Session 7 (9:00-10:30)

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<tr>
<td>7A</td>
<td>SBSC 1321</td>
<td>SYMPOSIUM: Mathematics and the Dialogue</td>
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<td>7B</td>
<td>SBSC 1517</td>
<td>Science &amp; Values</td>
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<td>7C</td>
<td>SSPB 1222</td>
<td>Figures in HOPOS: Kuhn &amp; Lorenzen</td>
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<td>7D</td>
<td>SSPA 2112</td>
<td>Approaches to Science and Philosophy &amp; Philosophy of Science</td>
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</table>

Coffee Break (10:30-11:00)

Plenary Session 2, Philip van der Eijk, “Aristotle, Aristotelianism and Medical Epistemology,” (11:00-12:30): Donald Bren Hall 1600

Lunch Break (12:30-2:00)

Parallel Session 9 (2:00-4:00)

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<thead>
<tr>
<th>Session</th>
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<tr>
<td>9A</td>
<td>SBSC 1321</td>
<td>Van Fraassen; Probability</td>
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<tr>
<td>9B</td>
<td>SBSC 1517</td>
<td>Scientific Cultures &amp; Historical Aspects</td>
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<td>9C</td>
<td>SSPB 1222</td>
<td>Truth, Languages, &amp; Pluralism</td>
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<td>9D</td>
<td>SSPA 2112</td>
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Coffee Break (4:00-4:30)

Parallel Session 8 (4:30-6:00)

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<tr>
<th>Session</th>
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<tr>
<td>8A</td>
<td>SBSC 1321</td>
<td>The Earth, the Sexes, &amp; Human Science</td>
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<tr>
<td>8B</td>
<td>SBSC 1517</td>
<td>SYMPOSIUM: Philosophical reflections with and on mathematics in China</td>
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<td>8C</td>
<td>SSPB 1222</td>
<td>Semantics &amp; Syntactic Themes</td>
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<td>8D</td>
<td>SSPA 2112</td>
<td>French Philosophy of Mathematics &amp; Philosophy of Science</td>
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Banquet (6:00-10:00): Wedgewood, on the UCI Campus
Full Program

Day 1, Jun 20, 2022

05:30PM - 07:00PM
Opening Reception
Ayers Hotel

Day 2, Jun 21, 2022

09:00AM - 10:30AM
Parallel 1A: Kant
Systematicity and Geometry in Kant's Natural Philosophy
Presented by:
Katherine Dunlop, University Of Texas At Austin

Kant and Astronomy [online]
Presented by:
Stephen Howard, Postdoctoral Fellow, KU Leuven

09:00AM - 10:30AM
Parallel 1B: History of the Philosophy of Biology
On the Emergence of Modern Philosophy of Biology [online]
Presented by:
Daniel Nicholson, Assistant Professor, George Mason University

Mayr's Proximate-Ultimate Distinction Reconsidered
Presented by:
Yafeng Shan, University Of Kent

The historical transformation of individual concepts into populational ones:
An explanatory shift in the gestation of the Modern Synthesis [online]
Presented by:
Tiago Rama, Autonomous University Of Barcelona
09:00AM - 10:30AM  
SSPB 1222

**Parallel 1C: Symposium: Impossible Being, Intentional Being, and Linguistic Being in Late Medieval Philosophy**

*It Is Impossible You Should Take True Root: Late Medieval Semantics of Impossibility and the Rise of Complex Mathematics*
Presented by: 
Graziana Ciola

Peter Auriol on Light, Colour, and Two Sorts of "Intentions"
Presented by: 
Andre Martin

Word-Identity and the Ontology of Mental Language in William of Ockham and Peter of Ailly
Presented by: 
Milo Crimi

09:00AM - 10:30AM  
SSPA 2112

**Parallel 1D: Weyl, Cassirer, and Geometry**

*Reichenbach and Weyl on Relativity Principles [online]*
Presented by: 
David Hyder, Department Of Philosophy, University Of Ottawa

The Constitution of Weyl's Pure Infinitesimal World Geometry
Presented by: 
C. D. McCoy, Assistant Professor, Underwood International College, Yonsei University

Cassirer's Theory of the A Priori and the Question of Physical Geometry [online]
Presented by: 
Benedetta Spigola, PhD, University Of Roma Tre

10:30AM - 11:00AM  
*Coffee Break*
Parallel 2A: How to Do Science: Experimentation, Mathematization, and Chemistry

The Brightness of the Moon and Presocratic Science [online]
Presented by:
Francisco Calderón, University Of Michigan, Ann Arbor

Pietro Catena’s Mathematization of Nature
Presented by:
David Miller, Associate Professor, Auburn University

The exemplary status of chemistry in Petrus van Musschenbroek’s philosophy of science [online]
Presented by:
Pieter Beck, Postdoctoral Assistant, Ghent University

Parallel 2B: Symposium: Carnapian Explication

Carnapian Explication: Origins and Shifting Goals
Presented by:
Erich Reck, Session Organizer And Speaker, University Of California, Riverside

Russell on Philosophical and Mathematical Definitions in Principles of Mathematics
Presented by:
Sean Morris

Carnap and Quine on Explication
Presented by:
Gary Ebbs
Parallel 2C: Whewell

The Necessity of Explication in Whewell's Inductive Philosophy of Science
Presented by:
Collin Lucken, Doctoral Student, University Of Cincinnati

Inductive and Deductive Reasoning in Discovering the Cause of Brownian Movement [online]
Presented by:
Klodian Coko, Postdoctoral Fellow, Ben-Gurion University Of The Negev

Whewell and the Problem with Property Clusters
Presented by:
Zina Ward, Assistant Professor, Florida State University

Parallel 2D: Du Châtelet

Émilie du Châtelet's Idealism on Substance and Body
Presented by:
Maaike Korpershoek, PhD Student, University Of Groningen, The Netherlands

The Enchanted Palace Founded on Attraction: Du Châtelet on Essential Gravity
Presented by:
Elliott Chen, Contributor, Participant, Western University (University Of Western Ontario)

Du Châtelet on Mechanical Explanation vs. Physical Explanation
Presented by:
Qiu Lin, Graduate Student, Duke University

Lunch Break
Parallel 3A: Newtonian Themes

Newton's Solution to the Problem of Bodies

Newton's Third Rule: Interpretive Puzzles and Intellectual Influences
Presented by:
Siddharth Muthukrishnan, Graduate Student, University Of Pittsburgh

Berkeley, Newtonian Mechanics, and Newtonian Matter
Presented by:
Scott Harkema, Ph.D. Candidate, Ohio State

Confirmation in post-Newtonian mechanics
Presented by:
Marius Stan, Associate Professor, Boston College

Parallel 3B: England and Logical Positivism

Did Ayer bring Logical Positivism to England? On the Key Differences between the Vienna Circle and his Language, Truth and Logic [online]
Presented by:
Artur Koterski

Hypotheses and Laws as Rules. Ramsey’s late Philosophy and its Impact on the Vienna Circle
Presented by:
Christoph Limbeck-Lilienau, Post-Doc Researcher, University Of Toronto

“The Ordinary Man Who Happens also to Have a Great Deal of Scientific Knowledge”: Susan Stebbing’s Philosophy of Physicists [online]
Presented by:
David Dunning, Postdoctoral Research Associate, University Of Oxford

Susan Stebbing on Logical Positivism: Communication, Solipsism, and Convention
Presented by:
Paul Franco, Associate Teaching Professor, University Of Washington - Seattle
Parallel 3C: Neo-Kantian Themes

Variability and Substantiality. Kurt Lasswitz and Marburg Neo-Kantianism
Presented by:
Marco Giovanelli, Assistant Professor, Università Degli Studi Di Torino

Paul Natorp’s interpretation of Descartes and the place of seventeenth-century mechanism in Marburg School history of philosophy of science
Presented by:
Scott Edgar

EXTENSIONAL LOGIC AND CONVENTIONALISM: A COMPARATIVE STUDY ON QUINE’S EARLY NOMINALISM AND LANGE’S NATURALIZED NEO KANTIANISM [online]
Presented by:
Samuel Descarreaux, PhD Candidate, University Of Ottawa

The Twilight of Intuition: Space In Russell’s Foundations of Geometry
Presented by:
Tyke Nunez, University Of South Carolina

Parallel 3D: Mary Shepherd | Non-Concrete Objects

The Miraculous as the Marvelous: Shepherd on Extraordinary Occurrences as Informative
Presented by:
Louise Daoust, Assistant Professor Of Philosophy, Eckerd College

Mary Shepherd’s Cosmological Argument from Physiology and Vitality
Presented by:
Daniel Collette, Visiting Assistant Professor, Marquette University

Did Some Hippocrates think the Science of Medicine required the Existence of Nonspatiotemporal objects? [online]
Presented by:
Kevin Cales, Graduate Student, SIUC

Natural Philosophy and Abstraction among Materialists: Thomas Hobbes and Margaret Cavendish on Light [online]
Presented by:
Marcus Adams, University At Albany, SU NY
04:00PM - 04:30PM  
Coffee Break

04:30PM - 06:00PM  
Plenary I: Katherine Brading  
SSPA 1100
Day 3, Jun 22, 2022

09:00AM - 10:30AM
SBSG 1321

Parallel 4A: Bacon
Induction, Reduction, and Action in Francis Bacon’s Philosophy of Nature
Presented by:
Ori Belkind, Senior Lecturer, Tel Aviv University

Two Organons for Two Epistemic Goals: The Relationship between Bacon and Spinoza [online]
Presented by:
Daniel Schneider, Assistant Professor, University Of Wisconsin At La Crosse

Bacon On Trial
Presented by:
Jana De Kockere, PhD Student, UGent

09:00AM - 10:30AM
SBSG 1517

Parallel 4B: Symposium: Individuating Bodies from Late Scholastic Aristotelian to Cartesian Philosophy
Nominalism, Composition and Individuation in the later Middle Ages
Presented by:
Calvin Normore, Panelist, University Of California, Los Angeles

What Individuates Bodies? Late 16th Century Scholastic Aristotelian Debates
Presented by:
Helen Hattab, Organizer And Panelist, University Of Houston

Descartes and the Plurality of Bodies
Presented by:
Deborah Brown, Panelist, University Of Queensland, Australia
Parallel 4C: Measurement, Quantities, and Scientific Objects
Rethinking the history of the philosophy of measurement: Norman Campbell (1880-1949) on quantities and the conditions of possibility of mathematical physics [online]
Presented by:
Nadine De Courtenay, Associate Professor, University Of Paris

The Foundations of Dimensional Analysis and the Metaphysics of Quantity Dimensions
Presented by:
Mahmoud Jalloh, PhD Student, University Of Southern California

The “desuetude” of scientific objects: a historical perspective on science
Presented by:
Caroline Angleraux, Post-doc, Université De Paris / IHPST

Parallel 4D: Aspects of Pragmatism
A Pragmatist Integration of Ethics and Epistemology
Presented by:
Parysa Mostajir, University Of Chicago

The case of John Dewey: Was the inventor of instrumentalism an instrumentalist? [online]
Presented by:
Celine Henne, PhD Candidate, University Of Cambridge

Practical Roots of Practical Realism
Presented by:
Peeter Mürsepp, Speaker, Tallinn University Of Technology

Coffee Break
**Parallel 5A: Force & Energy**

Ken Wilson's early concept of effective theory [online]

Presented by:

Sebastien Rivat, Max Planck Institute For The History Of Science

Cosmology and Cosmogony When The 'Expanding Universe' Was New: Debates at The BAAS

Presented by:

Mike D. Schneider, University Of Illinois At Chicago
Siska De Baerdemaeker, Stockholm University

Hertz's "Mechanics" and a Unitary Notion of Force

Presented by:

Joshua Eisenthal, Research Assistant Professor, California Institute Of Technology

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**Parallel 5B: Symposium: Philosophy of Mind as Philosophy of Science: Three Examples from the Late Nineteenth Century**

Renouvier on the Passions of the Scientific Mind

Presented by:

Jeremy Dunham, Associate Professor, University Of Durham

Protoplasm and the Mind-Body Problem: The Case of Edmund Montgomery

Presented by:

Trevor Pearce, UNC Charlotte

William James and the Search for Consciousness Criteria

Presented by:

Alexander Klein, Associate Professor, McMaster University
Parallel 5C: Early Modern Metaphysics of Space

The Evolution of Locke's Ontology of Absolute Space: From Imaginary Space to Cambridge Neoplatonism
Presented by:
Edward Slowik, Winona State University

Leibniz: from Absolute Space to Relational Space [online]
Presented by:
Vincenzo De Risi, Researcher, Laboratoire SPHère, Paris

The reception of Aristotelianism in Newton's metaphysics of space
Presented by:
Marian Gilton, Assistant Professor, University Of Pittsburgh

Parallel 5D: Feyerabendian Themes

Feyerabend's Empiricism
Presented by:
Jamie Shaw, Visiting Fellow, University Of Toronto
Stathis Psillos

Feyerabend, Hempel and the Later Reception and Decline of Logical Empiricism
Presented by:
Matteo Collodel, Ca' Foscari University Of Venice

Varieties of pluralism. A comparison of Granger's, Feyerabend's and Hacking's theories of scientific styles [online]
Presented by:
Matteo Vagelli, Marie Curie Postdoctoral Fellow, Ca' Foscari University Of Venice

HOPOS Business Lunch
Parallel 6A: Realism, Anti-Realism & Science Fiction

Physicalism in logical empiricism: the myth of mental anti-realism
Presented by:
Gergely Ambrus, Paper Contributor, Institute Of Philosophy, Lorand Eötvös University

Russell and American Realism
Presented by:
Matthias Neuber

How Herbert Feigl entered the Matrix
Presented by:
Christian Damböck, FWF Researcher, University Of Vienna

Parallel 6B: Symposium: Epistemology at Multidimensional Intersections: Federigo Enriques in Context

Federigo Enriques, Giuseppe Peano and Giovanni Vailati on the rationality of logic
Presented by:
Paola Cantù, Aix-Marseille University

Federigo Enriques and Felix Klein on mathematical concept formation
Presented by:
Francesca Biagioli, University Of Turin

Enriques and the Vienna Circle: Neurathian Themes
Presented by:
Michael Stoeltzner, Professor, University Of South Carolina
Parallel 6C: Laws, Axioms, & Principles

Is There a Notion of Laws of Nature in Chinese Classical Texts?
Presented by: Bixin Guo

Leibniz's Two Kingdoms United
Presented by: Rima Hussein, Doctoral Candidate, Johns Hopkins University

Laws as Axioms
Presented by: Michael Jacovides, Purdue University

Parallel 6D: Scientific Reasoning & Methodology

Mach on Thought Experiments [online]
Presented by: Kabir Singh Bakshi

Going to Where the Action Is: Reevaluating the Philosophical Significance of the Principle of Least Action
Presented by: Michael Veldman

Break

Laguna Beach Outing
09:00AM - 10:30AM
SBSG 1321

**Parallel 7A: Symposium: Mathematics and the Dialogue**

Greek Dialectic & Greek Mathematics  
Presented by: Benjamin Wilck

Negotiating epistemic values towards agreement  
Presented by: Deborah Kant

Mathematical Rigor in Practice: Dialogical Aspects  
Presented by: Yacin Hamami

09:00AM - 10:30AM
SBSG 1517

**Parallel 7B: Science & Values**

Rudner's Second Argument (for the Value-ladenness of Science) [online]  
Presented by: Robert Hudson

Four Traditions in the History of Values in Science  
Presented by: Matthew J. Brown, The University Of Texas At Dallas

09:00AM - 10:30AM
SSPB 1222

**Parallel 7C: Figures in HOPOS: Kuhn & Lorenzen**

Presented by: Juan V. Mayoral, Profesor, Universidad De Zaragoza, Spain

From the cluster theory to the taxonomic incommensurability. A chapter in Thomas Kuhn's intellectual development  
Presented by: Pablo Melogno, Professor, University Of The Republic  
Leandro Giri, Researcher, Conicet

The Methodical Constructivism of Paul Lorenzen - a normative philosophy of science [online]  
Presented by: Roman Jordan, University Of Vienna
<table>
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<th>Time</th>
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<tr>
<td>09:00AM - 10:30AM</td>
<td><strong>Parallel 7D: Approaches to Science and Philosophy &amp; Philosophy of Science</strong></td>
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<td>Philosophy and Science: An Ontological Approach [online]</td>
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<td>Presented by: Fabio Tononi</td>
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<td>Recent Aspects of Historiographical Theory: Logical Empiricism as a Case Study</td>
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<td>Presented by: Adam Timmins</td>
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<td>Grünbaum and Salmon at Work: Transforming Philosophy of Science into a Discipline</td>
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<td>Presented by: Fons Dewulf, Post-doc Assistent, KU Leuven</td>
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<td>10:30AM - 11:00AM</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>11:00AM - 12:30PM</td>
<td><strong>Plenary II: Philip van der Eijk</strong></td>
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<tr>
<td>12:30PM - 02:00PM</td>
<td><strong>Lunch Break</strong></td>
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</tbody>
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Parallel 9A: Van Fraassen | Probability

Belief, Acceptance, and Pragmatic Equivalence in Scientific Representation
Presented by:
Romy Vekony, PhD Student, Florida State University

Reassessing Bas van Fraassen's empiricist philosophy of science
Presented by:
Maarten Van Dyck, Ghent University

Classical Probability Defended
Presented by:
Conor Mayo-Wilson

Logical Probability and Induction
Presented by:
Stella Fillmore-Patrick, Graduate Student, University Of Texas At Austin

Parallel 9B: Scientific Cultures & Historical Aspects

Evolving Attitudes towards Science in Early 18th Century Philosophy Curricula
Presented by:
Steven Coesemans, Postdoctoral Fellow, KU Leuven

The Role of History and Philosophy of Science in Modern African Philosophy of Culture
Presented by:
Zeyad El Nabolsy, Graduate Student, Cornell University

The concept of "Scientific Culture" in Spanish-Speaking Countries
Presented by:
Belen Laspra, Assistant Professor, University Of Oviedo
Parallel 9C: Truth, Languages, & Pluralism
The Impact of Tarski's Theory of Truth on the Relationship Between Truth and Confirmation
Presented by: Jacob Lettie

Multiplicity in Ramsey's Theories
Presented by: Bruce Rushing, Workin', UCI

Programming tolerance: Carnap and the rise of computer languages
Presented by: Daniel Kuby, Postdoctoral Researcher, University Of Konstanz

Parallel 9D: Varia
Aristotle's Answer to Science's Great Scandal: Principle-Justification in Aristotle's Physics
Presented by: Daniel Kranzelbinder, Post Doc, Princeton University

Jakob von Uexküll's Concept of Umwelt as an Account of Minds
Presented by: Tim Elmo Feiten, Graduate Student, University Of Cincinnati

Naess: From Pluralism to Deep Ecology
Presented by: Jamie Shaw, Visiting Fellow, University Of Toronto

Coffee Break
Parallel 8A: The Earth, the Sexes, & Human Science

What About a Flat Earth? Pierre Gassendi’s Reconstructions of Epicurus’s Atomic Motion and the Shape of the Earth
Presented by:
Jo Coture, Doctoral Student, Ghent University

Cartesian Physiology, Natural Philosophy, and the Equality of the Sexes
Presented by:
Aaron Spink, Dartmouth College

Leibniz and Vico’s Critique of Descartes’ Model of Truth as Certainty and its Place in the Development of the Human Sciences
Presented by:
Gregory Moynahan, Associate Professor, Bard College

Parallel 8B: Symposium: Philosophical reflections with and on mathematics in China [online]

Thinking about “categories lei 類” in Chinese mathematical sources from the 2nd century BCE to the 3rd century CE
Presented by:
Karine Chemla, Symposium Organizer, SPHERE (CNRS & Université De Paris)

The Interplay between Counting Rods and Procedural Texts, and its Relation to approaches to the “Origin of Mathematics” in Ancient China
Presented by:
Yiwen Zhu, Co-organizer, Zhongshan (Sun Yatsen) University

“Reason/Principle” (li) and “root” (gen): Generality, from a Graph, of the Knowledge about the Right-angled Triangle in Ancient China (gou-gu) as Clarifying Mei Wending’s (1633 ~ 1721) New Practices
Presented by:
Shuyuan Pan, Co-organizer, Institute For The History Of Natural Sciences
Parallel 8C: Semantics & Syntactic Themes

Hilbert's Early Semantics Revisited: Isomorphism and Interpretability [online]
Presented by:
Georg Schiemer, University Of Vienna

Induction, Conceptual Spaces, and Homotopy: A Response on Carnap's Behalf
Presented by:
Jared Ifland, Graduate Student And Teaching Assistant, Florida State University

Carnap's Pragmatic Expressivism and the Syntactic-Semantic View of Theories
Presented by:
Robert Voelker, Graduate Student, Florida State University

Parallel 8D: French Philosophy of Mathematics & Philosophy of Science

A Forgotten Chapter in French Philosophy: Early Reflections on Mathematical Logic [online]
Presented by:
Ties Van Gemert, PhD-student, Tilburg University

Between Novelty and Necessity: Dialectical Transformations of Mathematical Concepts in Jean Cavaillès and Albert Lautman
Presented by:
Jean-Paul Cauvin, Faculty, University Of Pennsylvania

Art Historians' Response to Koyré's idealistic Philosophy of Science [online]
Presented by:
Rémi Carouge, Doctorant Contractuel, Université De Tours

Closing Banquet