

2017 7th Annual ESGF F2F Conference DRAFT Agenda

2017 Earth System Grid Federation (ESGF) Face-to-Face Conference
(San Francisco, California, USA)

Registration:

Conference venue:

San Francisco Sheraton at Fisherman's Wharf, 2500 Mason Street, San Francisco, CA 94133, USA

Remote participation: Indicate on registration form that you wish to participate remotely and an email will be sent with information you need to join Webinar.

Date: Dec 4, 2017 to Dec 8, 2017—8:00 AM - 6:00 PM EST

Webinar Logistics:

- 2017 ESGF F2F - Sheraton Fisherman's Wharf, San Francisco, California
- Tuesday, Wednesday, Thursday, Friday
(December 5, 2017 through December 8, 2017)
- 7:30 am | Eastern Standard Time (San Francisco, GMT-08:00) | 11 hours
- US TOLL: +1-415-655-0001
- Global call-in numbers:
<https://llnl.webex.com/llnl/globalcallin.php?serviceType=MC&ED=515492142&tolFree=0>
- Meeting number (access code): **TBD**
- Meeting password: esgf

Note. After logging on, please send your full name and affiliation to Angela (jefferson9@llnl.gov) for remote conference registration.

Time	Topic
Monday, December 4, 2017	
2:00 p.m. – 4:00 p.m.	Pre-conference registration: Sheraton; Room TBD
5:00 p.m. – 6:00 p.m.	Social Activity: Meet and Greet (NO HOST) Sheraton-Fisherman's Wharf – Restaurant/Bar
Tuesday, December 5, 2017	
7:30 a.m. – 8:30 a.m.	Registration: Sheraton; Room TBD

Time	Topic												
8:00 a.m. – 8:30 a.m.	Coffee/tea reception and meet & greet												
8:30 a.m. – 8:35 a.m.	Welcome, safety, introduction, conference charge, and agenda overview (Dean N. Williams— Department of Energy [DOE] / Lawrence Livermore National Laboratory [LLNL]) <ul style="list-style-type: none"> • How conference attendees contribute to the conference’s final report (hand out last year’s 2016 6th Annual ESGF F2F Conference Report) • Framing of the 2017 7th Annual ESGF F2F Conference 												
8:35 a.m. – 8:40 a.m.	DOE opening comments— (Justin Hnilo, U.S. DOE’s Office of Biological and Environmental Research [BER] Program Manager for Data Management)												
8:40 a.m. – 9:00 a.m.	State of the Earth System Grid Federation (ESGF) (Dean N. Williams—DOE/LLNL)												
Science Drivers: Project Requirements and Feedback (A note from our sponsors)													
9:00 a.m. – 12:00 noon (3 hours)	<p>Science Drivers <i>Session Discussion Lead — Dean N. Williams</i></p> <table border="1" data-bbox="526 730 1518 1108"> <tbody> <tr> <td data-bbox="526 730 690 793">9:00 a.m. – 9:30 a.m.</td> <td data-bbox="690 730 1518 793">Karl Taylor—Coupled Model Intercomparison Project, phase 6 (CMIP6) and the Working Group on Coupled Modeling Infrastructure Panel (WIP)</td> </tr> <tr> <td data-bbox="526 793 690 856">9:35 a.m. – 10:05 a.m.</td> <td data-bbox="690 793 1518 856">Peter Gleckler and Robert Ferraro—Observations for Model Intercomparison Project (Obs4MIPs)</td> </tr> <tr> <td data-bbox="526 856 690 919">10:10 a.m. – 10:40 a.m.</td> <td data-bbox="690 856 1518 919">Sébastien Denvil—Copernicus Programme</td> </tr> <tr> <td data-bbox="526 919 690 982">10:40 a.m. – 10:55 a.m.</td> <td data-bbox="690 919 1518 982" style="text-align: center;">Break</td> </tr> <tr> <td data-bbox="526 982 690 1045">10:55 a.m. – 11:25 a.m.</td> <td data-bbox="690 982 1518 1045">Jerry Potter—Collaborative REAnalysis Technical Environment Intercomparison Project (CREATE-IP)</td> </tr> <tr> <td data-bbox="526 1045 690 1108">11:30 a.m. – 12:00 noon</td> <td data-bbox="690 1045 1518 1108">Dean N. Williams—Accelerated Climate Model for Energy (ACME)</td> </tr> </tbody> </table> <p>Questions for presenters to answer during their presentations</p> <ul style="list-style-type: none"> • What are the key things that are difficult to do today and are impeding scientific progress or productivity and the sharing of data? • What are key development effort that you see are needed for the future success of your projects? • What is your timeline for data production and distribution from climate model and observations, high-performance computer, network, and storage facilities needs and investments? • What is the estimated size of your distributed archive? • What are your common developments, sharing of expertise, and accelerated developments? • What are the administrative/sponsor requirements that arise from your project (basically, metrics collection and reporting, persistent and digital object identifiers, deriving data, user publication [i.e., long-tail publication], etc.)? • What are your expected strategic roadmaps for the ESGF’s short-term (1 to 3 years), mid-term (3 to 5 years), and long-term (5 to 10 years) development efforts? • What are known use cases and workflows to help describe your ESGF future needs? <p>Homework assignment</p> <ul style="list-style-type: none"> • Before the conference adjourns, convert all known science drivers to use cases for ESGF development. 	9:00 a.m. – 9:30 a.m.	Karl Taylor—Coupled Model Intercomparison Project, phase 6 (CMIP6) and the Working Group on Coupled Modeling Infrastructure Panel (WIP)	9:35 a.m. – 10:05 a.m.	Peter Gleckler and Robert Ferraro—Observations for Model Intercomparison Project (Obs4MIPs)	10:10 a.m. – 10:40 a.m.	Sébastien Denvil—Copernicus Programme	10:40 a.m. – 10:55 a.m.	Break	10:55 a.m. – 11:25 a.m.	Jerry Potter—Collaborative REAnalysis Technical Environment Intercomparison Project (CREATE-IP)	11:30 a.m. – 12:00 noon	Dean N. Williams—Accelerated Climate Model for Energy (ACME)
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12:00 noon – 1:30 p.m.	Lunch												
1:30 p.m. – 3:30 p.m. (2 hours)	<p>Science Driver Town Hall Discussion <i>Session Discussion Lead — Dean N. Williams</i></p> <p>Town Hall Panel: (Karl Taylor, Peter Gleckler, Robert Ferraro, Sébastien Denvil, Jerry Potter,</p>												

Time	Topic						
	Dean N. Williams) Questions to prepare for discussion <ul style="list-style-type: none"> • What is working, and what is not working? • What are the key challenges to your programs concerning big data challenges? • What data services would address the identified challenges? • What exists already today? • What do we still need from ESGF? • What are the key characteristics that these services need to have to be successful (i.e. integrated, easy to customize, etc.)? • What are the key impediments (on the data provider/service provider side) in delivering these services? • Which services should be developed with the highest priority, and what would be their measurable impact on science/programs? 						
3:30 p.m. – 3:45 p.m.	Break						
3:30 p.m. – 5:30 p.m. (2 hours)	Poster and Live Demonstration Session <i>Session Discussion Lead — Dean N. Williams</i> Posters <ol style="list-style-type: none"> 1. Poster 1 2. Poster 2 3. Poster 3 4. Poster 4 5. Poster 5 6. Poster 6 7. etc. Demonstration <ol style="list-style-type: none"> 1. Demo 1 2. Demo 2 3. Demo 3 4. Demo 4 5. Demo 5 6. Demo 6 7. etc. 						
6:00 p.m. – 7:00 p.m.	Awards Ceremony + Live Entertainment						
7:00 p.m.	Adjourn Day 1						
Wednesday, December 6, 2017							
8:00 a.m. – 8:30 a.m.	Coffee/tea reception and meet & greet						
8:30 a.m. – 10:30 a.m. (2 hours)	International Climate Network Working Group, Replication / Versioning and Data Transfer Working Team Plenary Discussion <i>Session Discussion Leads and Presenters — Eli Dart, Lukasz Lacinski, Stephan Kindermann</i> <table border="1" data-bbox="524 1738 1518 1892" style="width: 100%; border-collapse: collapse;"> <tr> <td data-bbox="524 1738 695 1795">8:30 a.m. – 8:45 a.m.</td> <td data-bbox="695 1738 1518 1795">Eli Dart—Presentation on data transfers and replication progress</td> </tr> <tr> <td data-bbox="524 1795 695 1852">9:35 a.m. – 10:20 a.m.</td> <td data-bbox="695 1795 1518 1852">Group discussion</td> </tr> <tr> <td data-bbox="524 1852 695 1892">10:20 a.m. –</td> <td data-bbox="695 1852 1518 1892">Conclusion recap</td> </tr> </table>	8:30 a.m. – 8:45 a.m.	Eli Dart—Presentation on data transfers and replication progress	9:35 a.m. – 10:20 a.m.	Group discussion	10:20 a.m. –	Conclusion recap
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10:20 a.m. –	Conclusion recap						

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10:30 a.m. – 10:45 a.m.	Break								
10:45 a.m. – 12:00 noon (1 hour & 15 minutes)	<p>Compute and Data Analytics Working Team Plenary Discussion <i>Session Discussion Lead and Presenters — Charles Doutriaux and Daniel Duffy</i></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">10:45 a.m. – 11:00 a.m.</td> <td>Charles Doutriaux and Daniel Duffy—Presentation on server-side computing progress</td> </tr> <tr> <td>11:00 a.m. – 11:50 a.m.</td> <td>Group discussion</td> </tr> <tr> <td>11:50 a.m. – 12:00 noon</td> <td>Conclusion recap</td> </tr> </table> <p>Questions</p>	10:45 a.m. – 11:00 a.m.	Charles Doutriaux and Daniel Duffy—Presentation on server-side computing progress	11:00 a.m. – 11:50 a.m.	Group discussion	11:50 a.m. – 12:00 noon	Conclusion recap		
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11:50 a.m. – 12:00 noon	Conclusion recap								
12:00 noon – 1:30 p.m.	Lunch								
1:30 p.m. – 2:40 p.m. (1 hour & 10 minutes)	<p>Identity Entitlement Access Working Team Plenary Discussion <i>Session Discussion Lead — Philip Kershaw and Lukasz Lacinski</i></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">1:30 p.m. – 1:45 p.m.</td> <td>Philp Kershaw—Presentation on authentication and authorization and IdEA progress</td> </tr> <tr> <td>1:45 p.m. – 2:30 p.m.</td> <td>Group discussion</td> </tr> <tr> <td>2:30 p.m. – 2:40 p.m.</td> <td>Conclusion recap</td> </tr> </table> <p>Questions</p>	1:30 p.m. – 1:45 p.m.	Philp Kershaw—Presentation on authentication and authorization and IdEA progress	1:45 p.m. – 2:30 p.m.	Group discussion	2:30 p.m. – 2:40 p.m.	Conclusion recap		
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2:30 p.m. – 2:40 p.m.	Conclusion recap								
2:40 p.m. – 3:55 p.m. (1 hour & 15 minutes)	<p>User Interface and Search and Dashboard Working Team Plenary Discussion <i>Session Discussion Lead — Luca Cinquini, Guillaume Levavasseur, and Alessandra Nuzzo</i></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">2:40 p.m. – 2:55 p.m.</td> <td>Luca Cinquini—Status update and future planning for the ESGF UI, Search, and Dashboard Working Group</td> </tr> <tr> <td>2:55 p.m. – 3:30 p.m.</td> <td>Group discussion</td> </tr> <tr> <td>3:30 p.m. – 3:45 p.m.</td> <td style="text-align: center;">Break</td> </tr> <tr> <td>3:45 p.m. – 3:55 p.m.</td> <td>Conclusion recap</td> </tr> </table> <p>Questions</p> <ul style="list-style-type: none"> • Do you have any plan for engaging the user community to provide ongoing feedback for the user interface? • How do you expect the search services to scale to support new data holdings in the next 5 years? • Do you have any plans for federating the search services with other sites/agencies/institutions? • How do you validate the metrics obtained from the dashboard, both for a single node, and across the whole federation? 	2:40 p.m. – 2:55 p.m.	Luca Cinquini—Status update and future planning for the ESGF UI, Search, and Dashboard Working Group	2:55 p.m. – 3:30 p.m.	Group discussion	3:30 p.m. – 3:45 p.m.	Break	3:45 p.m. – 3:55 p.m.	Conclusion recap
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Time	Topic										
3:55 p.m. – 5:30 p.m. (1 hour & 15 minutes)	<p>Installation and Software Security Working Team Plenary Discussion <i>Session Discussion Leads — William Hill, Prashanth Dwarakanath, Luca Cinquini, and George Rumney</i></p> <table border="1" data-bbox="527 369 1523 716"> <tr> <td>3:55 p.m. – 4:05 p.m.</td> <td>William Hill and Prashanth Dwarakanath—Presentation on Software Installation</td> </tr> <tr> <td>4:05 p.m. – 4:15 p.m.</td> <td>Luca Cinquini—Presentation on Software Container (i.e., Docker)</td> </tr> <tr> <td>4:15 p.m. – 4:25 p.m.</td> <td>George Rumney—Presentation of Software Security</td> </tr> <tr> <td>4:25 p.m. – 5:20 p.m.</td> <td>Group discussion</td> </tr> <tr> <td>5:20 p.m. – 5:30 p.m.</td> <td>Conclusion recap</td> </tr> </table> <p>Questions</p> <ul style="list-style-type: none"> • How close are you to have an operation version of the Docker/Cloud ESGF? • Which services or functionality are still missing from this architecture? • How do you plan to address security risks with this architecture? • Is there a plan for migrating an operational system from the current shell-based installer to Docker/Cloud? 	3:55 p.m. – 4:05 p.m.	William Hill and Prashanth Dwarakanath—Presentation on Software Installation	4:05 p.m. – 4:15 p.m.	Luca Cinquini—Presentation on Software Container (i.e., Docker)	4:15 p.m. – 4:25 p.m.	George Rumney—Presentation of Software Security	4:25 p.m. – 5:20 p.m.	Group discussion	5:20 p.m. – 5:30 p.m.	Conclusion recap
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4:25 p.m. – 5:20 p.m.	Group discussion										
5:20 p.m. – 5:30 p.m.	Conclusion recap										
5:30 p.m.	Adjourn Day 2										
Thursday, December 7, 2017											
8:00 a.m. – 8:30 a.m.	Coffee/tea reception and meet & greet										
8:30 a.m. – 9:45 a.m. (1 hour & 15 minutes)	<p>Publication, Quality Control, Metadata, and Provenance Capture Working Team Plenary Discussion <i>Session Discussion Leads — Sasha Ames and Heinz-Dieter Hollweg</i></p> <table border="1" data-bbox="527 1314 1523 1566"> <tr> <td>8:30 a.m. – 8:40 a.m.</td> <td>Sasha Ames—Presentation on Publication Progress</td> </tr> <tr> <td>8:40 a.m. – 8:50 a.m.</td> <td>Heinz-Dieter Hollweg—Presentation on Quality Control Progress</td> </tr> <tr> <td>8:50 a.m. – 9:35 a.m.</td> <td>Group discussion</td> </tr> <tr> <td>9:35 a.m. – 9:45 a.m.</td> <td>Conclusion recap</td> </tr> </table> <p>Questions</p>	8:30 a.m. – 8:40 a.m.	Sasha Ames—Presentation on Publication Progress	8:40 a.m. – 8:50 a.m.	Heinz-Dieter Hollweg—Presentation on Quality Control Progress	8:50 a.m. – 9:35 a.m.	Group discussion	9:35 a.m. – 9:45 a.m.	Conclusion recap		
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9:35 a.m. – 9:45 a.m.	Conclusion recap										
9:45 a.m. – 10:45 a.m. (1 hour)	<p>Machine Learning Plenary Discussion <i>Session Discussion Lead — Sookyung Kim, TBD?</i></p> <table border="1" data-bbox="527 1749 1523 1873"> <tr> <td>9:45 a.m. – 9:55 a.m.</td> <td>Sookyung Kim—Presentation on Community Machine Learning</td> </tr> <tr> <td>9:55 a.m. – 10:05 a.m.</td> <td>Someone from Copernicus—TBD</td> </tr> </table>	9:45 a.m. – 9:55 a.m.	Sookyung Kim—Presentation on Community Machine Learning	9:55 a.m. – 10:05 a.m.	Someone from Copernicus— TBD						
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Time	Topic										
	10:05 a.m. – 10:35 a.m. Group discussion										
	10:35 a.m. – 10:45 a.m. Conclusion recap										
	<p>Questions</p> <ul style="list-style-type: none"> • What problems machine learning and deep learning methodologies can solve in climate domain? • What can it not solve? • What is the recent metrics in deep learning which can applied to climate data? • What exist already in climate community using artificial intelligence? • What is the highest priority problem using machine learning in climate community? • What are the key challenges to ESGF implementing machine learning algorithms? • How can we solve these challenges with respect to programs? • How can we solve data labeling and scalability issue? 										
10:45 a.m. – 11:00 a.m.	Break										
11:00 a.m. – 12:00 noon (1 hour)	<p>Diagnostics Plenary Discussion <i>Session Discussion Lead — Zeshawn Shaheen, others?</i></p> <table border="1" data-bbox="527 892 1518 1207"> <tr> <td>11:00 a.m. – 11:10 a.m.</td> <td>Zeshawn Shaheen—Presentation on the Community Diagnostics Package</td> </tr> <tr> <td>11:10 a.m. – 11:20 a.m.</td> <td>Copernicus—Presentation on Copernicus Diagnostics (TBD)</td> </tr> <tr> <td>11:20 a.m. – 11:30 a.m.</td> <td>Tom Landry—Presentation on Canada Diagnostics</td> </tr> <tr> <td>11:30 a.m. – 11:50 a.m.</td> <td>Group discussion</td> </tr> <tr> <td>11:50 a.m. – 12:00 noon</td> <td>Conclusion recap</td> </tr> </table> <p>Questions</p>	11:00 a.m. – 11:10 a.m.	Zeshawn Shaheen—Presentation on the Community Diagnostics Package	11:10 a.m. – 11:20 a.m.	Copernicus—Presentation on Copernicus Diagnostics (TBD)	11:20 a.m. – 11:30 a.m.	Tom Landry—Presentation on Canada Diagnostics	11:30 a.m. – 11:50 a.m.	Group discussion	11:50 a.m. – 12:00 noon	Conclusion recap
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11:50 a.m. – 12:00 noon	Conclusion recap										
12:00 noon – 1:30 p.m.	Lunch										
1:30 p.m. – 3:00 p.m. (1 hour & 30 minutes)	<p>Cloud Plenary Discussion <i>Session Discussion Lead — Luca Cinquini, others?</i></p> <table border="1" data-bbox="527 1417 1518 1732"> <tr> <td>1:30 p.m. – 1:40 p.m.</td> <td>Luca Cinquini—Presentation from Amazon Cloud and Collaboration (TBD)</td> </tr> <tr> <td>1:40 p.m. – 1:50 p.m.</td> <td>V. Balaji—Presentation from Google Cloud and Collaboration (TBD)</td> </tr> <tr> <td>1:50 p.m. – 2:00 p.m.</td> <td>Tom Landry—Presentation from Microsoft Cloud and Collaboration (TBD)</td> </tr> <tr> <td>2:00 p.m. – 2:50 p.m.</td> <td>Group discussion</td> </tr> <tr> <td>2:50 p.m. – 3:00 p.m.</td> <td>Conclusion recap</td> </tr> </table> <p>Questions</p>	1:30 p.m. – 1:40 p.m.	Luca Cinquini—Presentation from Amazon Cloud and Collaboration (TBD)	1:40 p.m. – 1:50 p.m.	V. Balaji—Presentation from Google Cloud and Collaboration (TBD)	1:50 p.m. – 2:00 p.m.	Tom Landry—Presentation from Microsoft Cloud and Collaboration (TBD)	2:00 p.m. – 2:50 p.m.	Group discussion	2:50 p.m. – 3:00 p.m.	Conclusion recap
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2:50 p.m. – 3:00 p.m.	Conclusion recap										
3:00 p.m. – 4:30 p.m. (1 hour & 30 minutes)	<p>Node Manager and Tracking / Feedback Notification Plenary Discussion <i>Session Discussion Lead — Sasha Ames and Tobias Weigel</i></p>										

Time	Topic										
	<table border="1"> <tr> <td data-bbox="527 279 690 342">3:00 p.m. – 3:10 p.m.</td> <td data-bbox="690 279 1523 342">Sasha Ames—Presentation on the Node Manager</td> </tr> <tr> <td data-bbox="527 342 690 405">3:10 p.m. – 3:20 p.m.</td> <td data-bbox="690 342 1523 405">Tobias Weigel— Presentation on PID Services and Tracking/Feedback</td> </tr> <tr> <td data-bbox="527 405 690 468">3:20 p.m. – 4:05 p.m.</td> <td data-bbox="690 405 1523 468">Group discussion</td> </tr> <tr> <td data-bbox="527 468 690 531">4:05 p.m. – 4:20 p.m.</td> <td data-bbox="690 468 1523 531" style="text-align: center;">Break</td> </tr> <tr> <td data-bbox="527 531 690 594">4:20 p.m. – 4:30 p.m.</td> <td data-bbox="690 531 1523 594">Conclusion recap</td> </tr> </table> <p data-bbox="527 625 641 657">Questions</p>	3:00 p.m. – 3:10 p.m.	Sasha Ames—Presentation on the Node Manager	3:10 p.m. – 3:20 p.m.	Tobias Weigel— Presentation on PID Services and Tracking/Feedback	3:20 p.m. – 4:05 p.m.	Group discussion	4:05 p.m. – 4:20 p.m.	Break	4:20 p.m. – 4:30 p.m.	Conclusion recap
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4:20 p.m. – 4:30 p.m.	Conclusion recap										
4:30 p.m. – 5:30 p.m. (1 hour)	<p data-bbox="527 699 1128 720">User Support and Documentation Plenary Discussion</p> <p data-bbox="527 720 998 751"><i>Session Discussion Lead — Matthew Harris</i></p> <table border="1"> <tr> <td data-bbox="527 783 690 846">4:30 p.m. – 4:40 p.m.</td> <td data-bbox="690 783 1523 846">Matthew Harris —Presentation on the User Support for the Community</td> </tr> <tr> <td data-bbox="527 846 690 909">4:40 p.m. – 5:20 p.m.</td> <td data-bbox="690 846 1523 909">Group discussion</td> </tr> <tr> <td data-bbox="527 909 690 972">5:20 p.m. – 5:30 p.m.</td> <td data-bbox="690 909 1523 972">Conclusion recap</td> </tr> </table> <p data-bbox="527 1003 641 1035">Questions</p>	4:30 p.m. – 4:40 p.m.	Matthew Harris —Presentation on the User Support for the Community	4:40 p.m. – 5:20 p.m.	Group discussion	5:20 p.m. – 5:30 p.m.	Conclusion recap				
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5:30 p.m.	Adjourn Day 3										
Friday, December 8, 2017											
8:00 a.m. – 8:30 a.m.	Coffee/tea reception and meet & greet										
8:30 a.m. – 10:00 a.m.	<p data-bbox="527 1276 1063 1297">ESGF Executive Committee Breakout Meeting</p> <ul data-bbox="535 1308 1315 1402" style="list-style-type: none"> • Discuss of the construction of the annual conference report • Discuss meeting location and time of the next ESGF F2F conference • Discuss strategic and implementation documents <p data-bbox="527 1444 812 1465">Working Teams Meeting</p> <ul data-bbox="535 1476 1437 1497" style="list-style-type: none"> • All working teams discuss conference findings for their area of annual reporting 										
10:00 a.m. – 10:15 a.m.	Break										
10:15 a.m. – 12:00 noon	<p data-bbox="527 1549 1258 1570">ESGF Development Teams Report Back on Conference Findings</p> <p data-bbox="527 1570 1015 1591"><i>Session Discussion Lead — Dean N. Williams</i></p> <ul data-bbox="535 1633 1136 1728" style="list-style-type: none"> • ESGF Team Leads findings on conference feedback • Prioritize the feedback • Open discussion 										
12:00 noon	Adjourn Day 4										
12:00 noon – 1:30 p.m.	Lunch										
1:30 p.m. – 5:30 p.m.	<p data-bbox="527 1812 885 1833">General Code Sprint (optional)</p> <ul data-bbox="535 1833 868 1854" style="list-style-type: none"> • Working Teams and Leads 										
5:30 p.m.	Conference Adjourn Day 4										

Time	Topic
Concludes the 7th Annual ESGF F2F Conference	