Overview

The WREN (IEA Wind Task 34) meeting was held September 4, 2017, in Estoril, Portugal. The purpose of this meeting was to discuss the status of key outreach and engagement WREN activities, determine the next steps for in-progress projects, finalize planning for the CWW WREN workshop, and discuss planning for the next in-person meetings. This meeting included representatives from eight of the eleven WREN member countries. Canada, France and Spain were not able to send representatives to this meeting. A participant list can be found in Table 1. The meeting agenda is found in Attachment 1.

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<thead>
<tr>
<th>Country</th>
<th>Representative(s)</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Ireland</td>
<td>Oonagh Duggan</td>
<td>BirdWatch Ireland</td>
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<tr>
<td>Netherlands</td>
<td>Marijke Warnas</td>
<td>Rijkswaterstaat – Branch Water, Traffic and Environment (WVL), Department of Water Quality and Nature Management (VWKN)</td>
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<td>Norway</td>
<td>Roel May</td>
<td>Norwegian Institute for Nature Research</td>
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<td>Portugal</td>
<td>Miguel Repas Goncalves</td>
<td>STRIX</td>
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<td>Miguel Mascarenhas</td>
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<td>Bioinsight</td>
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<td>Sweden</td>
<td>Åsa Elmqvist</td>
<td>Vindval</td>
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<td>Switzerland</td>
<td>Muriel Perron</td>
<td>nateco AG</td>
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<td>United Kingdom</td>
<td>Finlay Bennet</td>
<td>Marine Scotland Science</td>
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<td>United States</td>
<td>Karin Sinclair</td>
<td>National Renewable Energy Laboratory</td>
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<td></td>
<td>Andrea Copping</td>
<td>Pacific Northwest National Laboratory</td>
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<td></td>
<td>Jocelyn Brown-Saracino</td>
<td>U.S. Department of Energy</td>
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<td></td>
<td>Elise DeGeorge</td>
<td>National Renewable Energy Laboratory</td>
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Expected outcome of meeting:
   1. Review WREN Hub, Short Science Summaries, Outreach and Engagement
   2. Finalize planning for CWW workshop
   3. Initial planning for next in-person meetings

Summary of Action Items
ACTION: Jocelyn will follow up with DT Bird to try to get the full paper results from testing in Sweden.
ACTION: Oonagh will ask the French representative if it would be possible to translate the abstract and or the full avian mortality paper.

ACTION1: Karin will send comments from WIRE reviewers to primary authors.
ACTION2: Karin would like to hold a conference call in mid-October to get this information (white paper and SSS schedule).
ACTION3: NREL’s librarian will contact Jonathan at PNNL to arrange for a data transfer. Update: ongoing
ACTION4: Elise will work with AWWI to see if we can require country information for webinar registrants.
ACTION5: Roel will work on SSS pertaining to eagles.
ACTION6 & 7: Miguel R. will develop a SSS on migratory birds and another summary on wolves.
ACTION8: Muriel will focus on SSS on European grouse.
ACTION9: Roel’s colleague can develop SSS on sea birds (in the autumn timeframe).
ACTION10: As each lead develops SSS, links to references should be provided to Andrea.
ACTION11: Karin will check with M. Lawson to complete manuscript on barotrauma and then write SSS.
ACTION12: Marijke will send Karin an article which details resources that say barotrauma is an issue and others that say it is not.
ACTION13: Karin to send everyone (and Andrea) the 2-pager on WREN
ACTION14: Miguel R will draft SSS on wolves by November; aim is to publish by January 2018.
ACTION15: Miguel R will draft SSS on migratory soaring birds by November; aim is to publish by January 2018.
ACTION16: Roel will draft SSS on seabirds by end of 2017; aim is to publish by February 2018.
ACTION17: Muriel will draft SSS on European Grouse by end of 2017; publish by February 2018.
ACTION18: Roel will check with author on SSS on eagles and then put on schedule.
ACTION19: Karin to check with Roel on schedule for SSS on compensation.
ACTION20: WEST, Miguel G., Roel to lead SSS on wild reindeer.
ACTION21: Andrea/Finlay/Roel will discuss the BACI SSS topic further to determine best approach and schedule.
ACTION22: Finlay will find speaker from Scotland to present on restoration of a wind facility after decommissioning.
ACTION23: Karin will send comments from WIRE reviewers to primary authors. Finlay will address comments in text by September 12. Karin will respond to the other comments.
ACTION24: Member representatives need to complete the ambassador activity worksheet by the end of November 2017.
ACTION25: Karin to provide WREN slides for Oonagh to use for upcoming presentation. UPDATE: Done
ACTION26: Marijke will send out doodle poll in next few weeks to identify a date for the meeting in NL.
**ACTION27:** Finlay will send out information on two options for the September meeting in either Aberdeen or Inverness.

**ACTION28:** Karin will check with Spain, France and Canada to see if one of them would like to host the Fall 2018 meeting.

**Discussion of Remaining Action Items from June 14/15, 2017 meeting (notes on incomplete items)**

**ACTION4** – Andrea will put WREN deliverables schedule on Google docs or WREN Hub members’ site – Andrea will check to see if this is done. Update: complete

**ACTION5:** Marijke to follow up with Spain as Manuela had previously expressed interest in this topic – not done yet

**ACTION7:** Portugal, Netherlands, Scotland, Norway will coordinate and develop another outline/scope for the CEA paper by July 15th 2017 – not done yet

**ACTION8:** Marijke will conduct analysis of survey responses already received – analysis of survey responses has been performed; results are being written up

**ACTION9:** Marijke, with support from Portugal, Scotland, and Norway, will develop 2 separate surveys, to be available by August 15th 20179 – simple survey, questions complete

**ACTION11:** Åsa will follow up with Spain as Manuela had previously expressed interest in the G v G topic – Karin to check if someone else from Spain wants to be actively involved in the three white papers

**ACTION12:** Andrea will send Post Normal Science to group – Andrea will follow up on this. Update: done

**ACTION13:** All members should read the RMB outline and provide feedback to Andrea – will circulate again after the workshop

**ACTION13a:** Andrea will work with the two other white paper leads (Åsa and Marijke) on a joint survey with social scientist to be used to gather information. Update: done and completed

**ACTION14a:** Bat researchers (Miguel Repas, Jens, Cris) to hold conference call to discuss potential short science summary (SSS) – still working on setting up a call with bat experts to determine whether we want to have a SSS – Miguel will set up the call with Jens and Cris; will discuss during the SSS discussion.

**ACTION14b:** A lengthy discussion of proposed SSS topics is summarized in the notes below.

**ACTION16:** Tethys story one can be developed after the CWW conference; volunteer needed. Let’s discuss who can do this so they can view the conference through that lens. 3 parallel tracks – onshore vs offshore. May need to wait until after the conference to see who has something. Add quotes from all. Andrea will coordinate this.

**ACTION17:** Sweden will develop Tethys story on the Gotland Story – Annika was not at meeting to report on Tethys story on Gotland (wind energy on the island). Åsa will follow up with this.

**ACTION18:** Portugal will develop Tethys story on floating platforms – Miguel would like to set up a schedule for this. He cannot focus on floating platforms ecology, but rather as a technology.

**ACTION19:** Switzerland will send ideas by July 15 – Muriel has received agreement to contribute to radar use Tethys story by end of October. Agreed to wait on Generalized Fatality Estimator – was going to wait until after CWW workshop on this. This could be a multi-country collaboration (including Manuela Huso).

**ACTION20** – revisit ambassador activities

**ACTION32** – country contacts on WREN hub need to be updated – may do this during this meeting

**ACTIONS 33 through 35** – all actions are ongoing.

- Related to Action35, DT Bird provided a link to a report summarizing the results of a pilot study conducted in Sweden. The abstract is in English however there was no link CWW link to the paper. Roel has concerns about who translated the document. **ACTION:** Jocelyn will follow up with DT Bird to try to get the full paper results from testing in Sweden.
• Oonagh circulated a French paper on avian mortality (may not have been posted because it did not have an English abstract). France is a member, and they were willing to translate the Fact Sheet. Perhaps someone in France can translate the abstract for us. **ACTION:** Oonagh will ask the French representative if it would be possible to translate the abstract and or the full avian mortality paper.

**ACTION37** – Andrea has usage data for top 10 countries. Russia and China are the highest users. Andrea will get usage data for the second set of 10 countries. Oonagh would like number of hits from each country too. She would like to do how many from her network are using the data she has been sending out. Update: done

Below is a summary of the topics discussed in the meeting and details on new action items.

Oonagh passed it around information on ‘Wildlife and Wind Farms, Conflicts and Solutions’ by Martin R. Perrow. There will be two books – one on onshore wind and the other on offshore wind energy.

The team liked the way the action items were captured. **ACTION1:** Karin will send summary of remaining action items out 3 to 4 weeks before the next group meeting so we can get responses in advance of the meeting.

Work Plan – Karin needs to submit a revised workplan by Oct 26 to the ExCo. She would like to include a more refined white paper schedule. **ACTION2:** Karin would like to hold a conference call in mid-October to get this information (white paper and SSS schedule). In the work plan schedule (section 5) blue cells indicate work in progress, green indicates completion. Webinars are represented quarterly. This table will be updated once there is better information. Section 6 of the WREN work plan deliverables reflects the timeline in words. Karin keeps building on this as changes occur (e.g. Short Science Summaries and which countries that will be working on them.

**WREN Hub Overview**
The PNNL team created web pages for short science summaries and fact sheets. There will be a landing page for each one that we produce. The pages are live, although the table of references is current only to the present. In the near future, the tables will become dynamic, so that any new appropriate content will be automatically added. New content in WREN Hub includes 3750 documents total (2450 specific to wind energy and 1850+ specific to marine energy). There is some overlap. No document updates have been received from NREL in the recent past. This is due to a gap in staffing availability. A new librarian has been hired and data updates will be forthcoming. **ACTION3:** NREL’s librarian will contact Jonathan at PNNL to arrange for a data transfer. There will be a focus on adding more information on wind energy next year. NREL is also working on digitizing older documents.

Improvements to Tethys make it more efficient to update material. There are currently 13,000 pages.

For Webinars going forward, we should require country of origin when they register (and possibly what their role is). **ACTION4:** Elise will work with AWWI to see if we can require country information for webinar registrants. The group discussed benefits of registering, perhaps including a link on the WREN Hub (or through Tethys blast) to determine “what the level of interest is” in the topic. This information would be interesting when it relates to specific webinar topics. An approach would be to target webinar list. AWWI could possibly include link to gather information post webinar via a survey.

Metrics for Tethys use patterns: 99,691 views in last year. There are different metrics that can be used, including new users, page views, and use by country. When number of page views decreased, it could be that users were going straight in through Tethys blast. There were 1,080 views on WREN Hub over past year. Metrics for
WREN members page – 12 views in last year, which is very low. One strategy to increase use of the member’s page is to use it to disseminate information. However, people seem to like getting things like meeting minutes directly in an email. Also, users do not need to necessarily go through the member page to go to google doc. The member page has contact information that the group wanted to keep private. There is also the value of using the member page as an archive site.

PNNL continues to work on the map viewer, to improve its functionality. The data base aggregates individual ‘balloons’ into bigger blue circles. PNNL continues to collect materials for the Hub and is open to new ways to use its functionality.

Outreach and Engagement Activities

Short Science Summaries: Karin shared a slide on ‘process’ and the group discussed topics for future summaries.

- **ACTION5**: Roel will work on SSS pertaining to eagles.
- **ACTION6 & 7**: Miguel R. will develop a SSS on migratory birds and another summary on wolves.
- Muriel has not started a summary on grouse. She is wondering if she should focus on European species of grouse. The group discussed a 5-year study that started in 2014. There are no published results yet. Roel suggested we may want to split up into mountains vs forest habitats. Muriel would rather focus on habitat rather than species. A fact sheet on conclusions from research on wind energy/greater sage grouse in the U.S. has recently been developed by AWWI.
- **ACTION8**: Muriel will focus on SSS on European grouse.
- **ACTION9**: Roel’s colleague can develop SSS on sea birds (in the autumn timeframe).

Given that many who view SSS and fact sheets are not scientists, user friendly links should be included where possible. References and other links (including fact sheets from other sources that could complement the WREN summary) will be accessible on WREN Hub, with a link to these pages on the summary. WREN summaries will need to differentiate by species and geographies to make sure there is not overlap with other published products. For example, if the AWWI bat information is just North American bats, a SSS could be developed on European bats. We would need to make a clear distinction that these are not duplicative. If proposed topic is duplicative, we should not develop SSS. **ACTION10**: As each lead develops SSS, links to references should be provided to Andrea.

If we think that there is inaccurate data in an existing fact sheet, we could create a new one but it may be better to work with the organization to improve it. For example, the topic of barotrauma in bats may be an opportunity to refute inaccuracies IF new data becomes available. **ACTION11**: Karin will check with Mike Lawson to complete manuscript on barotrauma and then write SSS. **ACTION12**: Marijke will send Karin an article which details resources that say barotrauma is an issue and others that say it is not.

SSS should be limited to 800 words. The original draft should be created in Word for review. Any photos for the summary should be sent to Andrea. Once text is approved, PNNL will lay out final document using InDesign for final proof by author.

There was a recommendation that SSS be translated as well as fact sheets. Where appropriate, we should also include links to other existing fact sheets (such as AWWI’s). Karin shared the 2-pager she developed on WREN.
**ACTION13**: Karin to send everyone (and Andrea) the 2-pager on WREN. The group is encouraged to translate the 2-pager.

**SSS Topics/Lead/Timeline**: Many of these topics are synthesizing a lot of information that is already out there. We should also include topics that do not have a lot of information, e.g. compensation, restoration. We could gather information from adjacent industries to round out the discussion.

AWWI fact sheet layout includes clear areas that have a high degree of confidence, and remaining unanswered questions. The focus is on what we know, what we think we know, and what we do not know. Incorrect information can be problematic. Additional topics suggested include:

- **Particle motion (although this may be a good expert forum topic)**: Per Findlay, focus could be on particle motion in water that impact fish. Would include nascent science on how to measure this and how it may lead to a wider impact. We should consider wave versus particle motion, as marine mammals are affected by the wave motion of sound in water, while the participle motion of sound is the aspect damaging to fish. BOEM can possibly help with this. Maybe NOAA and PNNL as well. This is an issue with solids too. There are misconceptions of how sound travels through air. A large part of the MaRVEN project is focused on how accelerometers/particle accelerators can be used to measure sound. Andrew Gill and Frank Thomsen are key contacts for the MaRVEN research. DOE is funding a project now on this, as it relates to sound. The Swedish Defense Research Agency is another good source.

- **Micrositing strategies**: This is both science and viewed as a best practice.

- **Fatality searches**: Little post construction monitoring is occurring. Information on best practices would be very useful for Ireland. The 2015 CWW underscored how divergently this is being handled across the world. This is a good role for WREN to identify best practices. The summary could reference the Generalized Estimator but would mainly discuss how to conduct fatality searches.

- **Research design**, including BACI (Before-After Control-Impact) approach. The focus would be on how to conduct a proper survey to get useful information. There are currently concerns in the marine environment in being able to get a sufficient sample size. The topic will be challenging to put into a 2-pager. Approach should use a question-led approach. Phase 1, design your question; Phase 2, design your survey to answer that question. Follow by defining survey options. Should also include a feedback approach to determine if you are not answering the right question.

- **Wolves**: There is much information available (encouraging wolves into Germany). Should assess whether findings are applicable. This is a fragmentation issue. **ACTION14**: Miguel R will draft SSS on wolves by November; aim is to publish by January 2018.

- **Migratory soaring birds**: **ACTION15**: Miguel R will draft SSS on migratory soaring birds by November; aim is to publish by January 2018.

- **Seabirds (collisions, displacement, colony birds)**: **ACTION16**: Roel will draft SSS on seabirds by end of 2017; aim is to publish by February 2018.

- **European Grouse**: **ACTION17**: Muriel will draft SSS on European Grouse by end of 2017; publish by February 2018.

- **Golden eagles and white tailed eagles (maybe include bald eagle or may need 2 separate fact sheets)**: **ACTION18**: Roel will check with author on SSS on eagles and then put on schedule

- **Compensation**: schedule TBD. **ACTION19**: Karin to check with Roel on schedule for SSS on compensation.

- **Deer**: current state of knowledge on deer/wind energy interactions
• Wild reindeer: **ACTION20:** WEST, Miguel G., and Roel to lead SSS on wild reindeer. Swedish researchers have conflicting information; cannot access each other’s data.

• Reindeer (semi-domestic)

Some SSS topics the group discussed may be better as a fact sheet, white paper, or a new category for ‘best practice’. These might include:

• BACI/how to do surveys/question-led approach. **ACTION21:** Andrea/Finlay/Roel will discuss the BACI SSS topic further to determine best approach and schedule. Michael Morrison, Shawn Smallwood, others could be reviewers. There may be a challenge with how you apply these methodologies

• Micrositing

• Fatality searches best practice

WREN could also clearly identify topics on things that we do not have sufficient information on. These could be included on all future agendas: what do we not know, do we want to do best practices, are we all in the same place of understanding? We can have an ongoing list. We could gather this information on what we do not know during an expert forum.

**Webinars:** A number of webinar topics were discussed including:

• April/May 2018: Restoration of a wind facility after decommissioning. The Scottish National Heritage (SNH) has guidelines for this effort. **ACTION22:** Finlay will find speaker from Scotland to present on restoration of a wind facility after decommissioning. Issues to be covered include the types of problems that have occurred during restoration.

• How to handle decommissioned projects. Roel has information on this topic. Other projects are in Denmark and Gotland, Sweden.

• Smart Curtailment. Researchers are converging on best practices. The NWCC had a U.S.-based panel. Crissy Sutter can summarize U.S. perspective. This could be combined with a speaker from Portugal.

• DOE funded bat deterrent research. This topic should probably be included in the NWCC webinar series since the topic is U.S. focused. The information could be presented in 2 separate webinars – one to focus on the 3 research and development projects and the other to focus on the 2 advance field testing projects.

• Autumn or winter 2018: Risk based management and cumulative effects assessment together in one webinar.

• Autumn or winter 2018Green versus Green

• Defer compensation topic until after expert forum

• 2019: Holistic approaches, including life cycle assessments. Roel has a PhD candidate developing assessments on LCA, measuring the impact of a wind turbine across the project life cycle. LCA may be the approach to refining end to end benefits and impacts across the project life cycle.

**WIRE Article:** Comments were received from peer reviewers. The only major comment, from Oonagh, relates to the importance of restating green versus green in a way that it is not renewable energy pitted against local social concerns. We have 3 weeks to respond to the comments. **ACTION23:** Karin will send comments from WIRE reviewers to primary authors. Finlay will address comments in text by September 12. Karin will respond to the other comments. Oonagh offered to review again. A revised document will be circulated for final review within a week before being sent to NREL’s Communications Team for review. The manuscript will also need to be reviewed by NREL management prior to final submittal.
**Fact Sheets:** Andrea discussed 2-page fact sheets. Fact sheets are developed for white papers topics only. A reference to related fact sheets could be included in the introduction. Roel is writing an Individual to Population (I to P) fact sheet, which has been shared with coauthors. The I to P white paper is still under review by anonymous peer reviewers. It has been submitted to a ‘high impact factor’ journal (Renewable and Sustainable Energy Reviews). Muriel gave update that the German translation of the AM fact sheet is almost complete.

**WREN Ambassador Activities:** Table is on google drive. As decided in Gotland, each person needs to fill in their activities on the worksheet. **ACTION24:** Member representatives need to complete the ambassador activity worksheet by the end of November 2017. We will follow up in December for any refinement and thereafter we should update on a regular basis, especially ahead of an ExCo meeting. NOTE: Oonagh will be giving a WREN presentation in Copenhagen in September 2017. **ACTION25:** Karin to provide WREN slides for Oonagh to use for upcoming presentation.

**Expert Forums:** PNNL has been successful in holding expert forums on water topics. This format is used for topics where debates could be helpful in establishing some clarity on the topic. It is a good way to lay out the different sides of the issue. Expert forums are with ‘experts’ so they may not mind being recorded. In Annex IV (international wave and tidal collaboration), members listen in listening mode. Suggested topics include:

- Bats and Barotrauma (could wait for outcome from expert forum and before developing SSS).
- Compensation (including how it is handled in adjacent industries)
- Restoration (including how it is handled in adjacent industries)
- Displacement (waiting on Thanet wind farm). Topics would include how do you measure displacement, how do you model displacement and how do you get the data needed.

**Tethys Stories:** Proposed topics include:

- DOE bat deterrent research – Jocelyn (Early Spring 2018)
- INTACT – Roel (Fall 2017)
- Life Cycle Assessment – Roel (before end of 2018)
- Eagle Deterrent Progress (Summer 2018)
- CWW conference summary
- Radar research
- Wind energy in Gotland

**Future WREN Meetings:** The host and location of the next in-person meetings include:

- May or June 2018: Netherlands. **ACTION26:** Marijke will send out doodle poll in next few weeks to identify a date for the meeting in NL. The location will likely be in the Hague. Marijke will try to set up a technical visit to an offshore wind farm.
- Fall 2018 (will aim for end of September 2018): United Kingdom. Finlay is planning this meeting. The first option is to meet in Aberdeen. There we would have a lot of presentations on marine renewable presentations. A second option is to meet at the University of the Highlands, in Inverness. Thereafter, it would be a 4 hour drive north to see bird habitat. **ACTION27:** Finlay will send out information on two options for the September meeting in either Aberdeen or Inverness. **ACTION28:** Karin will check with Spain, France and Canada to see if one of them would like to host the Fall 2018 meeting. The UK would then host the following meeting in Spring 2019.
NOTE: The next NWCC Wind Wildlife Research meeting is being planned for late November 2018.

**CWW WREN Workshop:** The group discussed the workshop organization. Andrea reviewed agenda and decisions were made to shorten the overview of each of the topics to 10 minutes each. Solutions to other logistic issues to ensure the workshop was efficient and effective were discussed. One breakout session will be held before the break. The group will summarize what they have heard to make sure the input is being understood correctly. Reporters will be as follows:

- Oonagh for green vs green
- Finlay for RBM
- Roel for Cumulative Effects
ATTACHMENT 1
WREN Meeting Agenda
September 4, 2017

Expected outcome of meeting:
1. Review WREN Hub, Short Science Summaries, Outreach and Engagement
2. Finalize planning for CWW workshop
3. Initial planning for next in-person meetings

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<th>Time</th>
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<td>9:00</td>
<td>Welcome</td>
<td>Karin</td>
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<td>Introductions</td>
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<td>Review meeting agenda</td>
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<td>Review action items from June 2017</td>
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<td>9:45</td>
<td>WREN Hub</td>
<td>Andrea</td>
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<td>Overview of progress on WREN Hub (WP2)</td>
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<td>May or June 2018: Netherlands</td>
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<td>Fall 2018: United Kingdom</td>
<td>Finlay</td>
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<td>CWW WREN workshop</td>
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<td>Discussion of workshop organization – reorganization if needed</td>
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