

Appendix A : Peer Review Agenda

Hydropower Program Peer Review Agenda

July 25–29, 2022

Hydropower Program Opening Plenary

DAY 1 – MONDAY, JULY 25, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
10:00 AM	10:30 AM	WPTO Overview	WPTO	Jennifer Garson
10:30 AM	10:45 AM	Peer Review Introduction	WPTO	Ali Hewett
10:45 AM	11:30 AM	Hydropower Program Overview	WPTO	Tim Welch
11:30 AM	11:40 AM	BREAK		
11:40 AM	12:05 PM	Data Access, Analytics, and Workforce Development Activity Area Overview	WPTO	Corey Vezina, Allison Johnson
12:05 PM	12:35 PM	Hydropower STEM and Workforce Development	NREL	Elise DeGeorge
12:35 PM		ADJOURN AND MOVE TO ACTIVITY AREA BREAKOUTS (Days 2–4)		

Activity Area Breakout Sessions

WPTO's Hydropower Program Activity Areas Color-Coded Key

Innovations for Low-Impact Hydropower Growth
HydroWIRES
Fleet Modernization, Maintenance, and Cybersecurity
Environmental and Hydrologic Systems Science

Innovations for Low-Impact Hydropower Growth Review Session

DAY 2 – TUESDAY, JULY 26, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
10:00 AM	10:30 AM	Innovations for Low-Impact Hydropower Growth Activity Area Overview	WPTO	Katie Jackson
10:30 AM	11:00 AM	Groundbreaking Hydro and I AM Hydro Prizes	NREL, ORNL, WPTO	Tessa Greco, Scott DeNeale, Katie Jackson
11:00 AM	11:25 AM	The Design and Development of a Composite Hydropower Turbine Runner	Composite Technology Development, Inc.	Paul Fabian
11:25 AM	11:35 AM	BREAK		
11:35 AM	11:50 AM	Cold Spray Process Development for In Situ Repair and Mitigation of Cavitation Erosion	PNNL	Chris Smith
11:50 AM	12:15 PM	Standard Modular Hydropower Technology Acceleration	ORNL	Scott DeNeale
12:15 PM	1:00 PM	LUNCH		
1:00 PM	1:25 PM	Restoration Hydro: A Watershed Approach to Standard Modular New Hydropower	Natel Energy, Inc.	Abe Schneider
1:25 PM	1:50 PM	Prefabricated Standard Modular Hydropower Installations for Low-Cost Small Hydropower	Littoral Power Systems Inc	David Duquette
1:50 PM	2:15 PM	Small Hydro Interconnection Study	PNNL, ORNL	Alison Colotelo, Todd Wall, Chris O'Reilly, Hope Corsair
2:15 PM	2:40 PM	Reviewer Debrief	Reviewers	
DAY 3 – WEDNESDAY, JULY 27, 2022				
10:00 AM	10:25 AM	Development of a Modular Helical Fish Passage for Low Head Applications	Percheron Power, LLC	Jerry Straalsund
10:25 AM	10:50 AM	Advanced Compact Generation Module with Fish Safe Runner Technology	Natel Energy, Inc.	Gregor Cadman, Sterling Watson
10:50 AM	11:15 AM	Prefabricated Zero Ascend Omnispecies (ZAO) Modular Fish Passage Modules Using Advanced Manufacturing Techniques	Littoral Power Systems Inc.	David Duquette
11:15 AM	11:25 AM	BREAK		
11:25 AM	11:50 AM	A Novel Sediment Passage Module Design for Support of Standard Modular Hydropower	Regents of The University of Minnesota	Jeffrey Marr
11:50 AM	12:15 PM	National Conduit Resource Assessment	ORNL	Shih-Chieh Kao
12:15 PM	1:00 PM	LUNCH		
1:00 PM	1:25 PM	Integrated Water Power Resilience	PNNL, INL	Juliet Homer, Shiloh Elliott
1:25 PM	1:50 PM	Irrigation Modernization	PNNL, INL	Thomas Mosier
1:50 PM	2:15 PM	Alternative Opportunities for Hydropower	PNNL, INL	Rajiv Prasad, Thomas Mosier
2:15 PM	2:40 PM	Cost Data Collection & Modeling for Hydropower	ORNL	Gbadebo Oladosu
2:40 PM	3:05 PM	Reviewer Debrief	Reviewers	

HydroWIRES (Grid Reliability, Resilience, and Integration) Review Session

DAY 2 – TUESDAY, JULY 26, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
10:00 AM	10:40 AM	HydroWIRES Initiative Overview	WPTO	Sam Bockenbauer
10:40 AM	11:05 AM	Hydropower Flexibility Framework	Electric Power Research Institute, Inc.	Francisco Kuljevan
11:05 AM	11:30 AM	Increasing Operational Flexibility of Francis Turbines at Low Head Sites, Through Analytical and Empirical Solutions	GE Renewable Energy Hydro	Guillaume Rudelle
11:30 AM	11:40 AM	BREAK		
11:40 AM	12:05 PM	Exploring Multidimensional Spatial-Temporal Hydropower Operational Flexibilities by Modeling and Optimizing Water-Constrained Cascading Hydroelectric	Stevens Institute of Technology	Lei Wu
12:05 PM	12:30 PM	Identifying Hydropower Operational Flexibilities in Presence of Streamflow and Net-Load Uncertainty	University of California, Irvine	Soroosh Sorooshian and Bitu Analui
12:30 PM	1:00 PM	LUNCH		
1:00 PM	1:25 PM	Geomechanical Pumped Storage	Natel Energy, Inc.	Abe Schneider
1:25 PM	1:50 PM	Modeling And Optimizing Pumped Storage in A Multi-Stage Large Scale Electricity Market Under Portfolio Evolution	University of Missouri System	Rui Bo
1:50 PM	2:15 PM	Value And Role of Pumped Storage Hydro Under High Variable Renewables	GE Power	Christina Bisceglia
2:15 PM	2:40 PM	Predicting Unique Market Pumped Storage Significance (PUMPSS)	Electric Power Research Institute, Inc.	Aidan Tuohy
2:40 PM	3:00 PM	Reviewer Debrief	Reviewers	
DAY 3 – WEDNESDAY, JULY 27, 2022				
10:00 AM	10:30 AM	FAST Commissioning Prize for Pumped Storage Hydropower	NREL, WPTO	Tessa Greco, Corey Vezina
10:30 AM	10:55 AM	PSH-TES Tool	PNNL, ANL	Mark Weimar, Patrick Balducci
10:55 AM	11:20 AM	HydroWIRES Topic D1: CEM Enhancements	NREL	Stuart Cohen
11:20 AM	11:30 AM	BREAK		
11:30 AM	11:55 AM	Value Drivers Quantification	ANL, NREL, PNNL	Todd Levin
11:55 AM	12:20 PM	HydroWIRES Topic A: Environment-Flexibility Win-Wins	ORNL	Brenda Pracheil
12:20 PM	1:00 PM	LUNCH		
1:00 PM	1:25 PM	PSH Portfolio Evaluation and Innovation Study	ANL	Vladimir Koritarov
1:25 PM	1:50 PM	Life Cycle Assessment of Storage Technologies	NREL	Greg Stark
1:50 PM	2:15 PM	Scope Improvements to Power Flow and Stability Models	PNNL	Slaven Kincic
2:15 PM	2:30 PM	Reviewer Debrief	Reviewers	

DAY 4 –THURSDAY, JULY 28, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
10:00 AM	10:25 AM	HydroWIRES Topic C: Quantifying Reliability/Resilience	PNNL, ANL, INL, NREL, ORNL	Abhishek Somani
10:25 AM	10:50 AM	HydroWIRES Topic D2: Transmission/Storage Equivalence	PNNL, ANL	Jeremy Twitchell, Zhi Zhou
10:50 AM	11:15 AM	Idaho Power Run-of-River Hydropower and Battery Modeling	PNNL	Feng Pan
11:15 AM	11:25 AM	BREAK		
11:25 AM	11:50 AM	Hydropower Plant Controller Prototyping using Remote Hardware in the Loop	NREL	Mayank Panwar
11:50 AM	12:15 PM	Integrated Hydropower and Energy Storage: Providing Essential Reliability and Ancillary Services using Individual or Coordinated Hydropower Plants	INL, NREL	Thomas Mosier, Vahan Gevorgian
12:15 PM	1:00 PM	LUNCH		
1:00 PM	1:25 PM	Hydropower Storage Capacity Dataset	ORNL	Carly Hansen
1:25 PM	1:50 PM	HydroWIRES Topic B1: Enhancing the Representation of Conventional Hydropower Flexibility in Production Cost Models	NREL, PNNL	Greg Stark, Nathalie Voisin
1:50 PM	2:15 PM	HydroWIRES Topic B2: Improving the Representation of Hydrologic Processes and Reservoir Operations in Production Cost Models	NREL, PNNL	Greg Stark, Nathalie Voisin
2:15 PM	2:40 PM	HydroWIRES Topic D3: Forecasting	PNNL, INL	Nathalie Voisin, Thomas Mosier
2:40 PM	3:00 PM	Reviewer Debrief	Reviewers	

Fleet Modernization, Maintenance, and Cybersecurity Review Session

DAY 4 –THURSDAY, JULY 28, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
10:00 AM	10:25 AM	Fleet Modernization, Maintenance, and Cybersecurity Activity Area Overview	WPTO	Kyle DeSomber
10:25 AM	10:50 AM	Digital Twin	PNNL, ORNL	Osman Ahmed, Hong Wang
10:50 AM	11:15 AM	Hydropower Fleet Intelligence	ORNL	Pradeep Ramuhalli
11:15 AM	11:25 AM	BREAK		
11:25 AM	11:50 AM	Cybersecurity Value-at-Risk Framework	NREL, ANL	Mayank Panwar
11:50 AM	12:15 PM	Hydropower Cyber-Physical Reference Framework	PNNL, ANL, NREL	Ken Ham
12:15 PM	1:00 PM	LUNCH		
1:00 PM	1:25 PM	Hydropower Cybersecurity Risk/State of Fleet	PNNL	Marie Whyatt
1:25 PM	1:50 PM	Hydropower Fleet Cybersecurity Response and Recovery	PNNL	Darlene Thorsen
1:50 PM	2:15 PM	Reviewer Debrief	Reviewers	

Environmental and Hydrologic Systems Science

DAY 2 – TUESDAY, JULY 26, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
10:00 AM	10:30 AM	Environmental and Hydrologic Systems Science Activity Area Overview	WPTO	Dana McCoskey
10:30 AM	10:55 AM	A Real-time and Autonomous Water Quality Monitoring System	PNNL	Daniel Deng
10:55 AM	11:20 AM	Shad Tag Development	PNNL	Daniel Deng
11:20 AM	11:30 AM	BREAK		
11:30 AM	12:00 PM	Fish Protection Prize	NREL, WPTO	Tessa Greco, Dana McCoskey
12:00 PM	12:25 PM	Reviewer Debrief	Reviewers	
DAY 3 – WEDNESDAY, JULY 27, 2022				
10:00 AM	10:25 AM	Demonstrating Value of River Data Aggregation and Visualization Capabilities	PNNL	Kyle Larson
10:25 AM	10:50 AM	GMLC Water Risk for the Bulk Power System: Asset to Grid Impacts	NREL, ORNL	Ariel Miara
10:50 AM	11:15 AM	Methane Emissions	ORNL	Natalie Griffiths
11:15 AM	11:25 AM	BREAK		
11:25 AM	11:50 AM	FERC eLibrary	PNNL	James Bradford, Bo Saulsbury
11:50 AM	12:15 PM	Hydro Fleet Database Development and Analyses (HydroSource)	ORNL	Debjani Singh
12:15 PM	12:35 PM	Reviewer Debrief	Reviewers	

Reviewer Debrief with WPTO *closed door*

DAY 5 – FRIDAY, JULY 29, 2022			
Start (ET)	End (ET)	Presentation Topic	Organization
10:00 AM	11:00 AM	HydroWIREs Reviewer Debrief with WPTO	Reviewers and WPTO
11:00 AM	11:45 AM	Environmental and Hydrologic Systems Science Reviewer Debrief with WPTO	Reviewers and WPTO
11:45 AM	12:15 PM	STEM and Workforce Development	Reviewers and WPTO
12:15 PM	1:00 PM	BREAK	
1:00 PM	2:00 PM	Innovations for Low-impact Hydropower Growth Reviewer Debrief with WPTO	Reviewers and WPTO
2:00 PM	2:30 PM	Fleet Modernization, Maintenance, and Cybersecurity Reviewer Debrief with WPTO	Reviewers and WPTO
2:30 PM	3:00 PM	Prize Reviewer Debrief with WPTO	Reviewers and WPTO

Marine Energy Program Peer Review Agenda

July 18–22, 2022

Marine Energy Program Opening Plenary

DAY 1 – MONDAY, JULY 18, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
10:00 AM	10:30 AM	WPTO Overview	WPTO	Jennifer Garson
10:30 AM	10:45 AM	Peer Review Introduction	WPTO	Ali Hewett
10:45 AM	11:30 AM	Marine Energy Program Overview	WPTO	Tim Ramsey
11:30 AM	11:40 AM	BREAK		
11:40 AM	12:20 PM	Powering the Blue Economy Overview	WPTO	Tessa Greco
12:20 PM	12:50 PM	Marine Energy STEM and Workforce Development	NREL	Arielle Cardinal
12:50 PM		ADJOURN AND MOVE TO ACTIVITY AREA BREAKOUTS (Days 2–4)		

Activity Area Breakout Sessions

WPTO's Marine Energy Program Activity Areas Color-Coded Key

Foundational R&D
Technology Specific System Design and Validation
Reducing Barriers to Testing
Data Access, Analytics, and Workforce Development

Foundational R&D Review Session

DAY 2 TUESDAY, JULY 19, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
10:00 AM	10:40 AM	Foundational R&D Activity Area Overview	WPTO	William McShane
10:40 AM	11:10 AM	Demonstration of an Advanced Multi-Mode Point Absorber for Wave Energy Conversion	Oscilla Power, Inc.	Tim Mundon
11:10 AM	11:35 AM	Seawater Compatible Rotary Pump for Wave Energy Conversion	Resolute Marine Energy, Inc.	Marcus Gay
11:35 AM	11:45 AM	BREAK		
11:45 AM	12:10 PM	Design of High-Deflection Foils for MHK Applications	Ocean Renewable Power Company, LLC	Jarlath McEntee
12:10 PM	12:35 PM	Performance Testing of An Integrated Magnetic Power Take Off	Portland State University	Jonathan Bird
12:35 PM	1:25 PM	LUNCH		
1:25 PM	1:50 PM	Holistic Control Embedded Power Take Off (PTO) Development	CalWave Power Technologies Inc.	Thomas Boerner, Marcus Lehmann, Dan Petcovic
1:50 PM	2:15 PM	Reviewer Debrief	Reviewers	
DAY 3 – WEDNESDAY, JULY 20, 2022				
10:00 AM	10:25 AM	Fatigue and Structural Load Analysis and Control for Variable Geometry Wave Energy Converters	NREL	Nathan Tom
10:25 AM	10:50 AM	Next Generation WEC PTO CoDesign	SNL	Ryan Coe
10:50 AM	11:15 AM	Wave Energy Converter Modeling	NREL, SNL	Dave Ogden, Kelley Ruehl
11:15 AM	11:25 AM	BREAK		
11:25 AM	11:50 AM	WEC Array Power Management and Output Simulation Tool	NREL, PNNL	Toan Thanh Tran
11:50 AM	12:15 PM	WEC Design Optimization	SNL	Ryan Coe
12:15 PM	1:00 PM	LUNCH		
1:00 PM	1:25 PM	Wave Energy Converter Interlink Umbilical Cables Design Requirements, Best Practices and Recommended Design Improvements	PNNL	Leo Fifield
1:25 PM	1:50 PM	Model Validation and Site Characterization for Early Deployment MHK Sites and Establishment of Wave Classification Scheme	NREL, PNNL, SNL	Levi Kilcher, Vincent Neary, Zhaoqing Yang
1:50 PM	2:15 PM	Reviewer Debrief	Reviewers	

Technology-specific System Design and Validation Review Session

DAY 2 TUESDAY, JULY 19, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
10:00 AM	10:40 AM	Technology-Specific System Design and Validation Activity Area Overview	WPTO	Elaine Buck
10:40 AM	11:10 AM	Reduction of System Cost Characteristics Through Innovative Solutions to Installation, Operations, And Maintenance	Columbia Power Technologies, Inc.	Michael Ondusko
11:10 AM	11:35 AM	Open Water Testing of a Scaled Next Generation Point Absorber Wave Energy Device with Phase Control	Aqua-harmonics, Inc.	Alex Hagmuller
11:35 AM	11:45 AM	BREAK		
11:45 AM	12:10 PM	Water Horse Hydroelectric Harvester Development	University of Alaska Fairbanks	Jeremy Kasper
12:10 PM	12:35 PM	Performance Optimization and System Demonstration of a Multi-Mode Point Absorber	Oscilla Power, Inc.	Tim Mundon
12:35 PM	1:25 PM	LUNCH		
1:25 PM	1:50 PM	Cycloidal Wave Energy Converter	Atargis Energy Corporation	Stefan Siegel
1:50 PM	2:15 PM	Design, Build and Test of Novel, Remote, Low-Power Wave Energy Converter for Non-Grid Applications	Columbia Power Technologies, Inc.	Erik Hammagren
2:15 PM	2:40 PM	Hawaii Wave Surge Energy Converter (HAWSEC)	University of Hawaii	Patrick Cross
2:40 PM	3:05 PM	Reviewer Debrief	Reviewers	
DAY 3 WEDNESDAY, JULY 20, 2022				
10:00 AM	10:25 AM	Xct System for Harvesting InCurrent Hydrokinetic Energy from Low-Velocity Sites	Littoral Power Systems Inc.	David Duquette
10:25 AM	10:50 AM	An Innovative SR-WEC for a Market-Disruptive LCOE	Texas A&M Engineering Experiment Station	HeonYong Kang
10:50 AM	11:15 AM	Device Design and Robust Periodic Motion Control of an Ocean Kite System for Hydrokinetic Energy Harvesting	North Carolina State University	Chris Vermillion
11:15 AM	11:25 AM	BREAK		
11:25 AM	11:50 AM	Low-Flow Marine Hydrokinetic Turbine for Small Autonomous Unmanned Mobile Recharge Stations	Florida Atlantic University	Manhar Dhanak
11:50 AM	12:15 PM	Modular Rivgen	Ocean Renewable Power Company, Inc.	Ryan Tyler
12:15 PM	1:00 PM	LUNCH		
1:00 PM	1:25 PM	Advancing CalWave's WEC Design for PacWave	CalWave Power Technologies Inc.	Thomas Boerner

DAY 3 TUESDAY, JULY 20, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
1:25 PM	1:50 PM	Floating Oscillating Surge Wave Energy Converter Using Controllable Efficient Power Takeoff System	Stevens Institute of Technology (Inc)	Muhammad R. Hajj
1:50 PM	2:15 PM	MARMOK- Oscillating Water Column (OWC)	Idom, Inc.	Borja de Miguel Para
2:15 PM	2:40 PM	Optimization, Design, And Commercialization Planning of Next-Generation Stingray H3 Wave Energy Converter	Columbia Power Technologies, Inc.	Pukha Lenee-Bluhm
2:40 PM	3:05 PM	Reviewer Debrief	Reviewers	
DAY 4 THURSDAY, JULY 21, 2022				
10:00 AM	10:40 AM	Waves to Water: Desalination Prize	NREL, WPTO	Scott Jenne, Simon Gore
10:40 AM	11:20 AM	Ocean Observing Prize	NREL, PNNL, WPTO	Jenny Wiegele, Carrie Schmaus
11:20 AM	11:30 AM	BREAK		
11:30 AM	11:55 AM	Wave-SPARC – Structured Innovation	NREL, SNL	Jochem Weber
11:55 AM	12:20 PM	Distributed Embedded Energy Converter Technologies DEECTEC	NREL	Blake Boren
12:20 PM	1:05 PM	LUNCH		
1:05 PM	1:30 PM	Significant Cost Reduction Potential for Wave Energy Conversion Devices with Variable Geometry Modules	NREL	Nathan Tom
1:30 PM	1:55 PM	Verdant/NREL Research Measurement Campaign	NREL	Robynne Murray
1:55 PM	2:25 PM	Reviewer Debrief	Reviewers	

Reducing Barriers to Testing Review Session

DAY 3 WEDNESDAY, JULY 20, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
10:00 AM	10:40 AM	Reducing Barriers to Testing Activity Area Overview	WPTO	Lauren Ruedy
10:40 AM	11:20 AM	Triton Initiative	PNNL	Joe Haxel, Garrett Staines
11:20 AM	11:30 AM	BREAK		
11:30 AM	11:55 AM	Rapidly Deployable Acoustic Monitoring and Localization System Based on A Low-Cost Wave Buoy Platform	Integral Consulting Inc.	Kaustubha Raghukumar
11:55 AM	12:20 PM	Long-Range Target Detection and Classification System for Environmental Monitoring at MHK Sites	Biosonics, Inc.	Tim Acker
12:20 PM	1:00 PM	LUNCH		
1:00 PM	1:25 PM	Improvements to Hydrodynamic and Acoustic Models for Environmental Prediction	SNL	Jesse Roberts
1:25 PM	1:50 PM	National Lab and University Collaboration for MHK Instrumentation and Data Processing Tools	NREL, PNNL, SNL	Rebecca Fao
1:50 PM	2:15 PM	Network Director for The Testing Expertise and Access for Marine Energy Research (TEAMER) Program	Pacific Ocean Energy Trust	Patrick Cross
2:15 PM	2:40 PM	Reviewer Debrief	Reviewers	
DAY 4 THURSDAY, JULY 21, 2022				
10:00 AM	10:25 AM	Enabling Cost Effective Electricity from Ocean Waves: PacWave	Oregon State University	Burke Hales
10:25 AM	10:50 AM	National Marine Renewable Energy Center Infrastructure Upgrades	University of Washington	Brian Polagye
10:50 AM	11:15 AM	Current Turbines Mobile Testing Vessel	Idom, Inc.	Alvaro Garcia
11:15 AM	11:45 AM	Reviewer Debrief	Reviewers	

Data Access, Analytics, and Workforce Development Review Session

DAY 4 THURSDAY, JULY 21, 2022				
Start (ET)	End (ET)	Presentation Topic	Organization	Speaker
10:00 AM	10:25 AM	Marine Energy Data Access, Analytics, and Workforce Development Overview	WPTO	Allison Johnson
10:25 AM	10:50 AM	MHK Data Products and User Community Development (PRIMRE)	PNNL, NREL, SNL	Andrea Copping, Cesar Castillo, Jon Weers
10:50 AM	11:15 AM	International Environmental Data Sharing Initiative (Annex IV Project & Tethys Database)	PNNL	Andrea Copping
11:15 AM	11:25 AM	BREAK		
11:25 AM	11:50 AM	Improving The Efficiency and Effectiveness for MHK Permitting: A Toolkit and Engagement for Success	Kearns & West, Inc.	Zach Barr
11:50 AM	12:25 PM	Grid Value Proposition of MHK	PNNL, NREL	Dhruv Bhatnagar, Levi Kilcher
12:25 PM	12:45 PM	Reviewer Debrief	Reviewers	

Reviewer Debrief with WPTO *closed door*

DAY 5 FRIDAY, JULY 22, 2022			
Start (ET)	End (ET)	Presentation Topic	Organization
10:00 AM	11:00 AM	Foundational R&D Reviewer Debrief with WPTO	Reviewers and WPTO
11:00 AM	12:00 PM	Technology-Specific System Design and Testing Reviewer Debrief with WPTO	Reviewers and WPTO
12:00 PM	12:45 PM	BREAK	
12:45 PM	1:45 PM	Reducing Barriers to Testing Reviewer Debrief with WPTO	Reviewers and WPTO
1:45 PM	2:15 PM	Data Access, Analytics, and Workforce Development Reviewer Debrief with WPTO	Reviewers and WPTO