



Detailed Schedule

- Presentations
- All participant session
- Workshop
- Break (Note: breaks will occur in 2-hour workshops. Esri Learning Lab will be open during breaks)
- * Indicates student presenter

Tuesday, September 19			
11:00 am – 12:30 pm	Registration Open		
	LUNCH ON YOUR OWN		
12:30 pm	Welcome and Opening Remarks		
12:45 pm – 2:15 pm	Crowd Source Maps, Storytelling, Big Data and the Internet of Things - A Discussion with Dr. Joseph Kerski, Esri Education Manager and Dr. Alex Philp, Senior Research Fellow, The Mansfield Center, The University of Montana Dr. Joseph Kerski: Five Societal Forces Catapulting GIS into the Mainstream Dr. Alex Philp: Billions of Interconnected Things: A Revolution for the Geospatial Community		
2:15 pm – 2:30 pm	Break with Exhibitors in Bavendick Stateroom		
	Concurrent Sessions (A)		
2:30 pm – 3:30 pm	Room 433	Room 436	Bavendick Stateroom
	A1. 2-hour Workshop GIS and Public Health: The Economic Geography of Disease. Roundtable workshop with Alex Philp, PhD (break available at scheduled time)		A2. 1-hour Workshop Knowledge from Pixels by Kyle Campbell, Google and Jason Caldwell, Sanborn
3:30 pm – 3:45 pm		Break with Exhibitors in Bavendick Stateroom; move to next session	
	Concurrent Sessions (B)		
3:45 pm – 4:45 pm		Room 436	Bavendick Stateroom
		B1. Crowdsourcing <ul style="list-style-type: none"> Creating Community through Volunteer Mapping by Mark Steele, MapND Empowering Citizen Scientists through GIS by Chris Gerecke, Timmons Group Migrating Historic Data Sources to ArcGIS Online by Alan Schafer, KLJ 	B2. 1-hour Workshop ArcGIS Pro by Jayson Hagen, Esri
4:45 pm – 7:00 pm	Poster Reception in Bavendick Stateroom - Poster authors will be available from 4:45 – 5:30 pm Alumni Social begins at 5:00 pm		

Day 2 – continued on next page.....

Wednesday, September 20				
7:30 am – 8:00 am	Continental Breakfast, Exhibitor Showcase in Bavendick Stateroom			
8:00 am – 8:30 am	Premier Sponsor Presentations in Bavendick Stateroom			
	Concurrent Sessions (C)			
	Room 431	Room 433	Room 436	Bavendick Stateroom
8:30 am – 9:30 am	Esri Hands On Learning Lab	C1. 2-hour Workshop The Boundary and Annexation Survey (BAS) and 2020 Local Update of Census Addresses Operation (LUCA) presented by Allison Shafer, US Census Bureau	C2. View from Space: Remote Sensing/Elevation <ul style="list-style-type: none"> From Satellite to Maps: Bringing Remote Sensing Data to Your GIS Application by Lindsey Harriman, USGS-EROS Data Center New Lidar Technologies for 3DEP by Steve Shivers, USGS Estimate Water Temperature from the Landsat 8 TIR Bands using the Split Window Algorithm: A Case Study for Devils Lake by Afshin Shabani*, UND 	C3. Practical Skills for the GIS Professional <ul style="list-style-type: none"> Give 'Em Map Envy: How to Stylize Your Map in Inkscape to Make it Downright Amazing by Stephanie Boyum, North Point Geographic Solutions Don't Get Lost without your GIS Roadmap! By Chris Gerecke, Timmons Group The New ND GIS Hub Data Portal by Bob Nutsch, ND ITD
9:30 am – 9:45 am	Break		Break and Exhibitor Showcase in Bavendick Stateroom	
	Concurrent Sessions (D)			
			Room 436	Bavendick Stateroom
9:45 am– 10:45 am	Esri Hands On Learning Lab		D1. Closer to Earth: UAS and Imagery Applications <ul style="list-style-type: none"> Drones: Making Engineering Tasks Easier by Erik Nelson, Houston Engineering Unmanned Aerial Systems (UAS) Image Applications and Data Management for Precision Agriculture by John Nowatzki, NDSU Impact of Wetlands Loss on the Long-Term Flood Risks of Devils Lake in a Changing Climate by Sergey Gulbin*, UND 	D2. Public Works and Transportation <ul style="list-style-type: none"> Integrating ArcGIS Server, ArcGIS Online and ArcMap Desktop to create a comprehensive GIS-Based Mobile Data Collection and Reporting System by Aaron Mielke, Barr Engineering Addressing Geographic Disparities in Access to Ambulance Services: Ensuring Access while Minimizing Costs by Yvonne Jonk, UND School of Medicine and Public Health NDDOT's Road Conditions Reporting System – From the Plow to the Map by Brian Bieber, NDDOT Jim Mertz, Bolton & Menk - GIS Applications for Public Works
10:45 am – 11:00 am	Break and Exhibitor Showcase in Bavendick Stateroom			
11:00 am– 12:00 pm	Full GIS Technical Committee Meeting in Bavendick Stateroom PLEASE ATTEND – YOUR VOICE IS IMPORTANT			

12:00 pm - 12:45 pm	Lunch (provided), Exhibitor Showcase in Bavendick Stateroom				
12:45 pm – 1:45 pm	Concurrent Sessions (E)				
	Room 431	Room 432	Room 433	Room 436	Bavendick Stateroom
	Esri Hands On Learning Lab	E1. Workshop 2-hour workshop: Augmented Reality Sandbox with GIS for Education and Outreach by Dr. Brad Rundquist and Morgen Burke, University of North Dakota	E2. Workshop 1-hour workshop: Spatial Analysis with ArcGIS Online by Dr. Joseph Kerski, Esri	E3. Environment <ul style="list-style-type: none"> Hydrology in the GIS Age by Thomas Johnson, Ackerman-Estvold 2017 Geographic Targeting System for Groundwater Monitoring by Derek Kannenberg, NDDEQ Targeting Surface Water Quality with PTMApp by Grit May, International Water Institute Development of Climate Database Utility for SWAT (CDUSt) and analysis of reforecasting PRISM data by Noah Irby*, UND 	E4. Panel Discussion on Parcels North Dakota Statewide Parcel Dataset Panel Discussion led by Bob Nutsch, ND ITD; Jim Mertz, Bolton & Menk; Stacey Swanson, Billings County; and Daryl Masten, City of Fargo
1:45 pm – 2:00 pm	Break		Break and Exhibitor Showcase in Bavendick Stateroom		
2:00 pm – 3:00 pm	Concurrent Sessions (F)				
	Esri Hands On Learning Lab	Education and Outreach by Dr. Brad Rundquist and Morgen Burke, University of North Dakota	Room 433	Room 436	Bavendick Stateroom
F1. Workshop 1-hour workshop Creating Custom Widgets with the WebApp Builder for ArcGIS by Chad Nunemacher, Houston Engineering			F2. Workshop 1-hour workshop Mobile Imaging Solutions for Asset Collection by Dylan Jones, Frontier Precision	F3. Analytics & Workflow <ul style="list-style-type: none"> What's New with ArcGIS Enterprise? By Jesse Adams, Northpoint Geographic Solutions Introduction to Insights for ArcGIS by Jayson Hagen, Esri Choosing the Right Solution for Flood Infrastructure Inspection in the field: compare and contrast Esri's Survey123 and Collector by Brad Anderson, City of Moorhead and Dave Kirkpatrick, Houston Engineering 	
3:00 pm – 3:15 pm	Break and Exhibitor Showcase in Bavendick Stateroom				
3:15 pm – 4:15 pm	Closing Keynote: Why Data Quality Matters by Dr. Joseph Kerski, Esri Education Manager				
4:15 pm - 4:30 pm	Conference Closing / Door Prizes / Evaluation				