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Draft Agenda- Binational Geospatial Software Developers Summit

April 23 & 24th, 2025 1:00 pm - 5:00 pm Eastern Daylight Time

GoTo Webinar

Binational Geospatial Software Developers Summit:

CSRS and NSRS Modernization - Readiness

Day 1:

1. Welcome and Introductions: Summit goals and overview - **Directors** (10 min)
2. Overview of NSRS and CSRS Modernization - **Dru Smith & Catherine Robin** (20 min)
 - a. NGS update
 - b. CGS update
3. Geometric Frame update (70 min)
 - a. Coordinate functions - **Rick Bennett** (15 min)
 - i. Importance and Examples of station time series
 - b. Minimizing Residual Plate motion with Euler Pole Parameters (EPPs)
Ali Goudarzi / Rick Bennet (15 min)
 - i. How we did it, what the values are, and implementation equation
 - c. Update on Intra-frame Deformation Models (IFDMs) (20 min)
 - i. CGS - **Jason Bond**- Canadian approach to development and use of IFDM2022, and what is new in v8 since v7
 - ii. NGS - **Michael Dennis** - US approach to IFDM2022 - how it will be different from HTDP & its role in the Modernized NSRS
 - d. Reference & survey epoch coordinates (REC/SEC) - **Michael Dennis** (10 min)
 - e. State Plane Coordinate System of 2022 - **Michael Dennis** (10 min)

Q&A (30 minutes)

Break (15 minutes)

4. Height Systems update - **Jianliang Huang & Kevin Ahlgren** (45 min)
 - a. GEOID2022: SGEOID2022, DGEOD2022, deflections
 - b. Overview of the models, products, and tools - where they are on alpha
 - c. Q&A (15 min)
5. Versioning & Naming of Products (NGS/CGS) (15 min) - **Dru Smith & Jason Bond**

Q&A (15 minutes)

End Day 1

Day 2: Software Developers updates (4 hours)

1. Day 2 intro - Summary of Day 1 and input received - **Galen Scott** (10 min)
2. Binational Summary of Products - **Dru Smith & Catherine Robin** (15 min)
3. Transformation tools & workflows - **Brian Donahue & Dru Smith** (60 min)
 - a. CGS
 - b. NGS
4. Standards, coding in registries - **Dan Roman, Mike Craymer & Roger Lott** (45 min)
 - a. ISO Geodetic Registry update (Mike) (20 min)
 - b. EPSG update (Roger) (10min)
 - c. GGXF & ~~GVX~~ (Dan) 10 min

Q&A: (15 min)

5. Developer updates - 5 -15 minutes each on the same set of questions
 - a. Have you implemented and tested dynamic / time dependent reference systems in your software?
 - b. Where do you or will you get authoritative information on transformations now and once adopted (e.g. parameters, grids, etc)?
 - c. How do you advise clients on how to correctly transform between frames and epochs?
 - d. For RTK providers: what needs to happen on your RTK controllers to support NAD83 and NATRF (firmware updates)? How will you manage your mountpoints?
 - e. What challenges are your users anticipating?
 - f. What are the major benefits of the new system that you anticipate for your customers?
 - g. What specific questions, suggestions, or concerns do you have for NGS and/or CGS?

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