

## Study Group Agenda 15 de julio de 2023 Sede CIAPR Salón Ing. Harry Villegas 8:00am – 5:00pm

# FS – Fundamental of Surveying

8:00am – 12:00pm

Programing HP33s

1:00pm - 5:00pm

## 5. Survey Computations and Computer Applications

- A. Coordinate geometry
- B. Traverse closure and adjustments
- C. Leveling (e.g., differential, trigonometric, reciprocal, precise)
- D. Least squares adjustments
- E. Area
- F. Horizontal curves
- G. Vertical curves
- H. Volume (e.g., mass diagrams, earthwork)
- I. Spreadsheets
- J. Slopes and grades

#### PS – Principles and Practice of Surveying

8:00am – 12:00pm

Programing HP33s

#### 1:00pm - 5:00pm

- 4. Business Practices
  - A. General Business Practices and Procedures
    - 1. Project planning and project management
    - 2. Deliverables
    - 3. Costs, budgets, and contracts
    - 4. Types of surveys
    - 5. Site features and conditions
    - 6. Scope of services
    - 7. Appropriate equipment and instruments
  - B. Risk Management Procedures
    - 1. Safety procedures
    - 2. QA/QC methods
    - 3. Risk management in contracts
    - 4. Insurance needs and requirements
    - 5. Potential liabilities
  - C. Professional Conduct
  - D. Communication with Clients, Staff, Related Professions, and the Public
    - 1. Different forms of communications
    - 2. Appropriate type of communication to convey concepts
    - 3. Related professions and their impact on client needs and deliverables