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Information technology  
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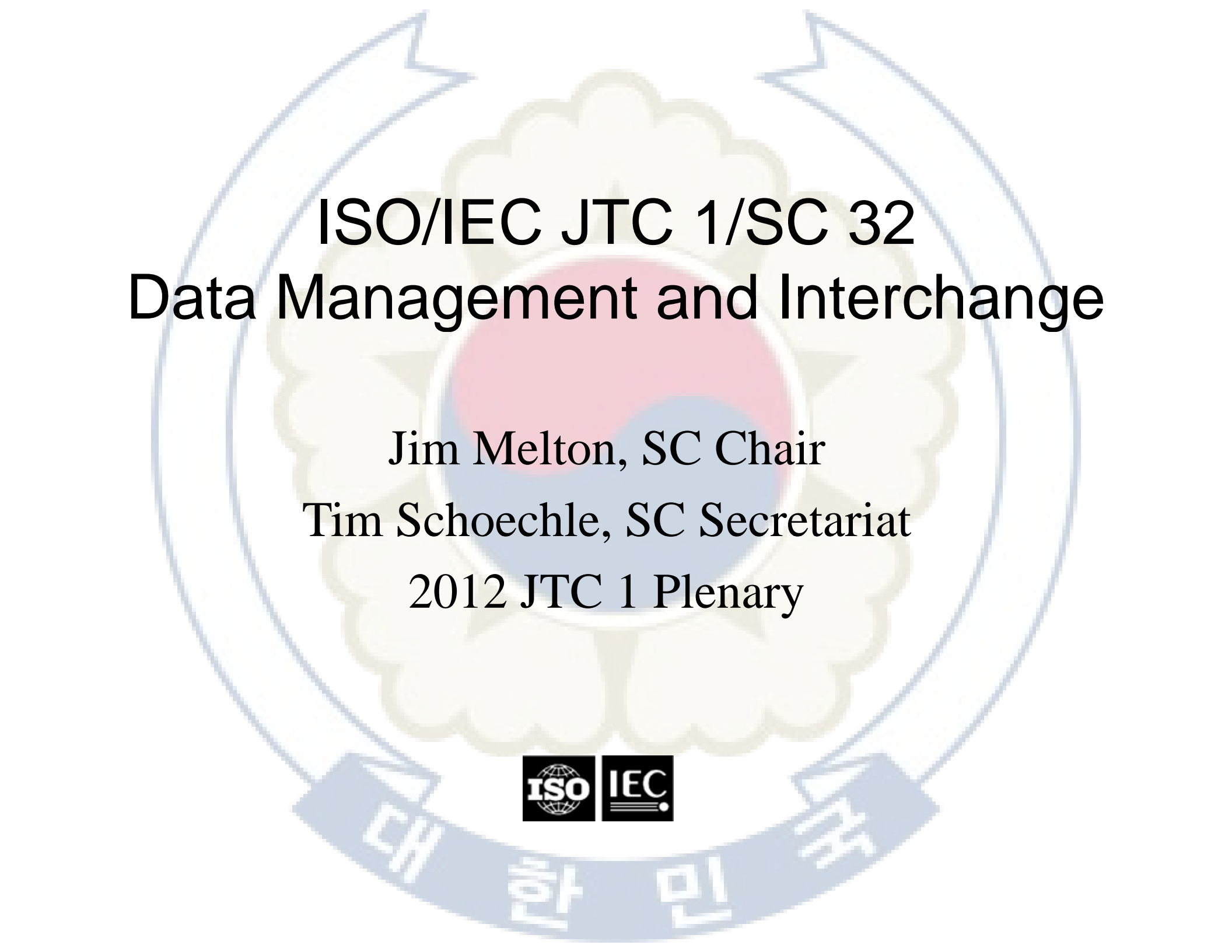
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**Email of secretary:** [lrajchel@ansi.org](mailto:lrajchel@ansi.org)

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**ISO/IEC JTC 1/SC 32**  
**Data Management and Interchange**

**Jim Melton, SC Chair**

**Tim Schoechle, SC Secretariat**

**2012 JTC 1 Plenary**



# Précis of 2012: Meetings

- SC 32 Plenary — 2012-06-04, 2012-06-08; Berlin, Germany
- All WGs — 2012-05-29 – 2011-06-07; Berlin, Germany
- Forty six attendees in Berlin from nine National Bodies
- All WGs — 2012-10-15 – 2012-10-19; Krakow, Poland

# Précis of 2012: WG 1

- Focusing on the Business Operational View of Open-edi; basis for MOU re: standardization in e-business between ISO, IEC, ITU, & UN/ECE
- Operational aspects of Open-edi for implementation, registration of scenarios/components, accounting & economic ontology, external constraint identification, jurisdictional domains, privacy protection, coded domains, and traceability framework
- New resources have become available, individuals and National Bodies, improving outlook for work

# Précis of 2012: WG 2

- Extending metadata registry (ISO/IEC 11179-3) to include data semantics
- Aligning w/OMG, W3C, OASIS via informal meetings
- New parts of ISO/IEC 19763 (Metamodel Framework for Interoperability) initiated
- Strong focus on metamodel relationships/management
- Continued work on Semantic SOAs and Model-Driven Architectures

# Précis of 2012: WG 3

- Began work on new edition of ISO/IEC 9075
- Met with & had presentations from NoSQL community
- Had presentations from multi-dimensional array database researcher
- Initiated work on Technical Corridenda for parts of 9075:2011

# Précis of 2012: WG 4

- Transformed 13249-7 (History) to Technical Spec and initiated processing of DTS
- Withdrew project for 13249-8 (SQL/MM Metadata Registry Access); lack of progress
- Continued significant extensions to 13249-3 (SQL/MM Spatial), in coöperation with TC211 and OGC

# Précis of 2012: Milestones

- 7 projects completed, in Publication stage
- 6 projects submitted for FDIS ballot
- 4 projects submitted for FCD/DIS ballot
- 11 projects are in CD stage
- About 20 projects currently in WD stage
- Cumulative total number of standards published in SC 32 lifetime: 108



# Looking Forward

- Study Group on Next Generation Analytics, Social Analytics, and Big Data
- Consider whether cloud computing demands on standards developed in SC 32 should result in development of new standards and/or enhancements to existing standards
- New editions of several multi-part standards
- Opportunity for serious navel-gazing to determine whether SC 32 wants, and is able, to stretch its capabilities and address new requirements

# Looking Forward: WG 1

- Continue progression of parts of 15944
- Improved participation in MOU work
- Resource limitations somewhat improved
- Limited vendor participation

# Looking Forward: WG 2

- Continue progression of parts of 11179, 19763, 19773, 20943, 20944, and 24706
- Two Study Groups: metadata for cloud computing, fact-based models
- Great interest in “social analytics”, “big data”, and “linked data” (Study Group)
- Resources are adequate, but limit new work
- Limited vendor participation; driven largely by government interests

# Looking Forward: WG 3

- Possible areas of enhancement to 9075 (SQL):
  - Multi-dimensional arrays
  - Recognition of patterns in sequences of rows
  - APIs for NoSQL environments
  - Features for processing “Big Data”
- Great interest in “next generation analytics” & “big data” (Study Group)
- Largely driven by vendors, some increase in consumer and academia participation

# Looking Forward: WG 4

- ISO/IEC 13249-3 (SQL/MM Spatial) continues to be significantly enhanced
- Much interest in “next generation analytics” (Study Group)
- Resources are currently adequate, but there’s a sense of diminishing interest in new parts
- Most participation from user and academic communities, slightly less from vendors

# Challenges

- Resources & worldwide economic climate!
- Consideration of and alignment with external standards (*e.g.*, W3C, OMG, OGC, OASIS)
- Increasingly rapid advancement of technology and user demand for standards and products
- Increasing complexity of and interaction between technology domains
- Shift from “systems” to “cloud”, massive parallelism, big data, approximate results, direct end user access

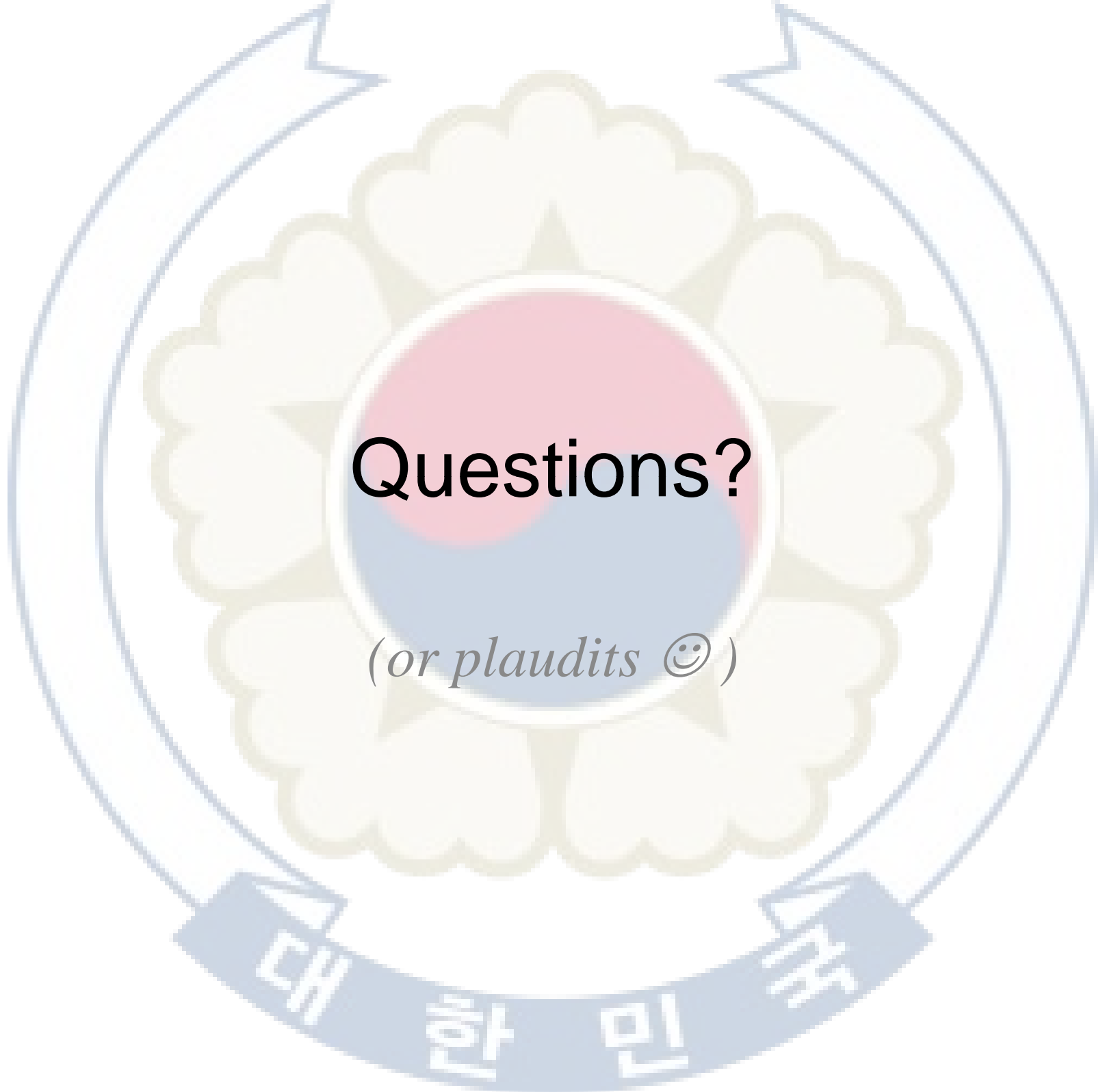
# 2013 Meetings

- SC 32 Plenary (and all WGs) — tbd, KOR, hosted by Korea — 2013-tbd – 2013-tbd
- Interim meeting — no offers so far
- Study period or other ancillary meetings may be proposed at the Plenary

# Acknowledgements

- Lisa Rajchel and Karen Higginbottom, respectively the Secretariat for and Chair of JTC 1, for their on-going support and advice
- Tim Schoechle, Secretary of SC 32, for his excellent advice, guidance, and tireless efforts to keep SC 32 running smoothly and to assist my work as Chair
- The Convenors of all WGs and the NB Heads of Delegation for their unfailing efforts to make my job easier and their tolerance as I stumble along
- All WG participants for their continuing hard work to Do The Right Thing for the world community by producing excellent and useful standards





Questions?

*(or plaudits 😊)*