



Biological Modeling Community of Practice

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June 19, 2006
BOSC



RESEARCH & DEVELOPMENT

Building a scientific foundation for sound environmental decisions

Activities

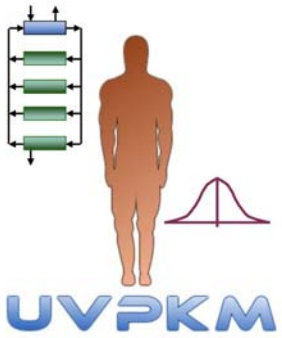
- June 2005 - Charter drafted and circulated
- Sept 2005 - Names of participants collected
- Nov 9, 2005 - Kick-off conference call
- Nov 2005 - Initiated planning for International Workshop on Uncertainty and Variability in PBPK Models
- May 2005 - CoP Discussion at Liver Modeling meeting



Kick-off Call

- 16 participants
- 30 people on email list
- Overview of Activities in NCCT, NCEA, NERL, NHEERL
- Discussion of next steps
- Facilitated interactions on liver modeling and PBPK & statistics
- Limited response on request for steering committee members

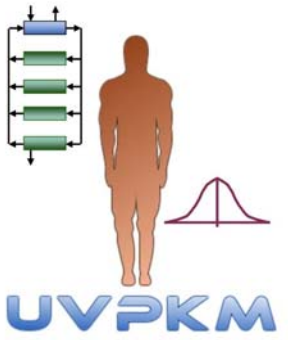




Uncertainty and Variability in PBPK Models (UVPKM): International Workshop

- Oct 31 – Nov 2, 2006
- US EPA, Research Triangle Park, NC
- Organizing Committee
 - Hugh Barton (NCCT), Weihsueh Chiu (NCEA), Hisham El-Masri (NHEERL), Woody Setzer (NCCT)
 - John Bailer, Frederic Bois, Harvey Clewell, George Loizou, Sean Hays, Chris Portier, Martin Spendiff
- Co-Sponsors: NCCT, NCEA, NHEERL, NIEHS

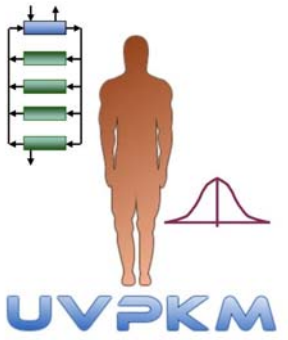




Uncertainty and Variability in PBPK Models (UVPKM): International Workshop

- Goal: Review and assess the state of the science for characterizing uncertainty and variability in PBPK models. Recommend research, training, implementation priorities.
- Plenary Session
 - Overview of PBPK Modeling, Experimental Data, Statistical Methods, Risk Assessment Applications
- Three Breakout Groups
 - Model Specification
 - Model Calibration
 - Model Prediction





Uncertainty and Variability in PBPK Models (UVPKM): International Workshop

- Approximately 60 invited participants:
 - modelers, statisticians, experimentalists
 - US: 40, Europe: 15, Canada: 4
- Public registration via website (late June)
- IPCS (WHO) PBPK Modeling Good Practice Project
 - UVPKM will be one input to this process.
 - Harmonization of Practice for Risk Assessment



CoP Future Directions

- Maintain & distribute email list for biological modelers
- Evaluate potential of EPA Science Connector (sharing materials)
- Complement existing workgroups such as NCEA PKWG, ORD MOA
- Complement cross-organizational modeling efforts: pyrethroids (NERL, NHEERL, OPP), liver modeling (NCCT, NERL, NHEERL, NCEA).

