

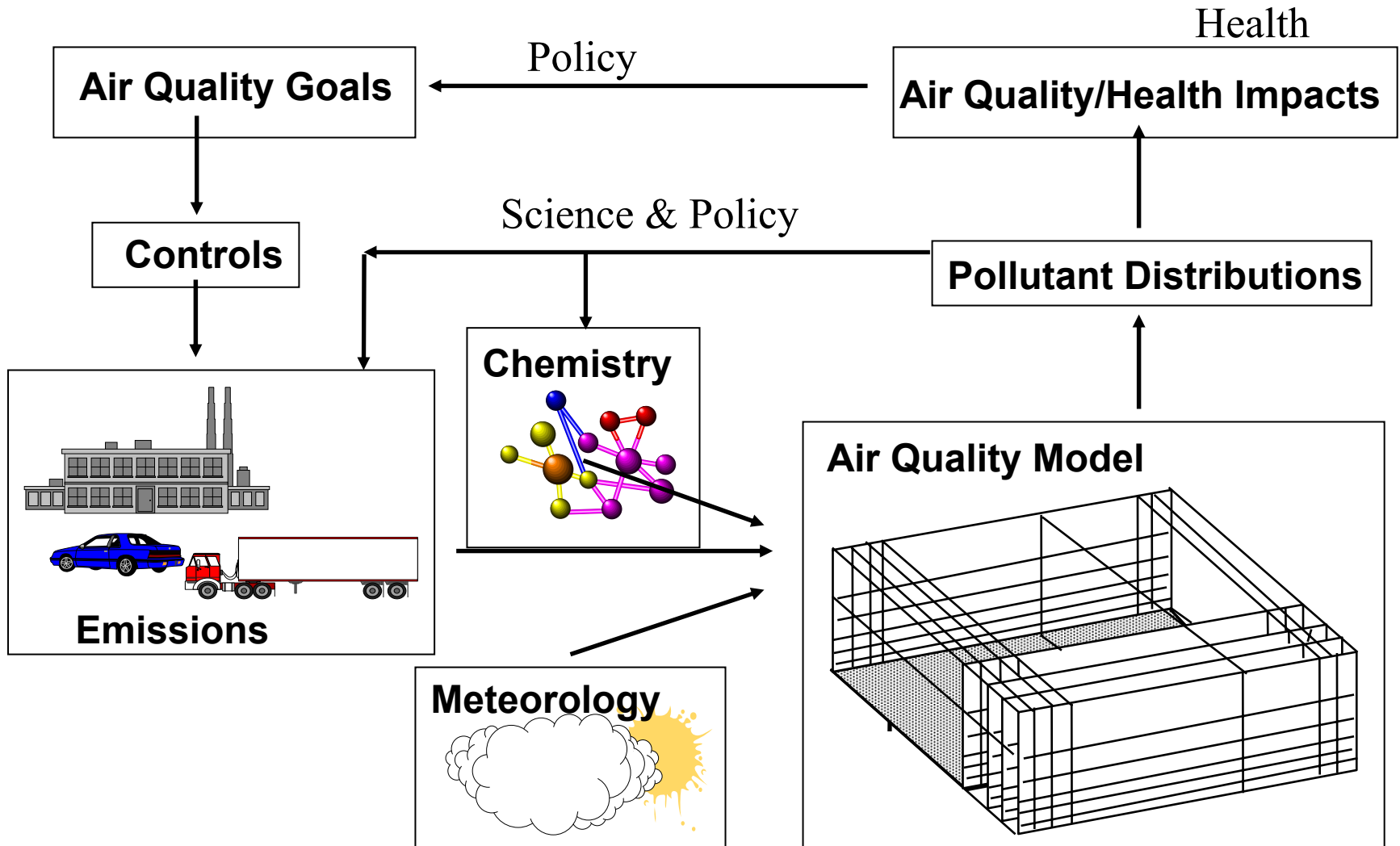
Linking Emissions, Air Quality and Policies: Air Quality Models

**Jana Milford, Russ Dickerson, Eladio Knipping
and Ted Russell, et al.**

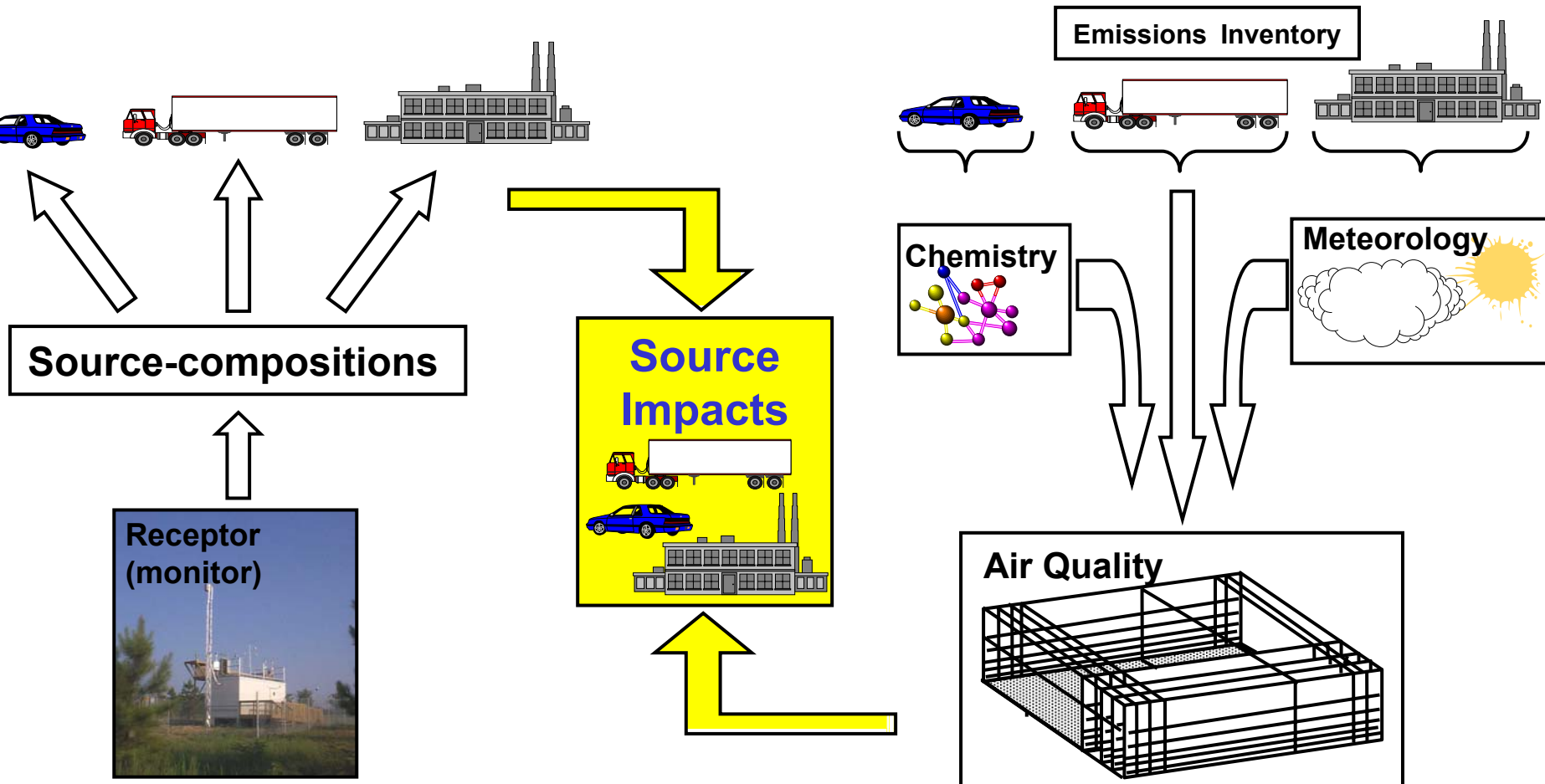
August 16, 2006

2006 LFEE MIT-NESCAUM Endicott House Clean Air Symposium on
Air Emissions from Large Industrial Sources

Roles of Air Quality Modeling



Receptor vs. Emissions-Based Models



Receptor Model

(e.g., PMF)

Emissions-based Model

(3D Air-quality Model: e.g. CMAQ)

“Air Quality Modeling” Topics

- Regulatory Process: Milford (before lunch)
- Use with satellite data to estimate emissions: Russell
- Diagnosing power plant impacts: Dickerson, Knipping
 - Marufu et al.: Use this event to evaluate air quality models
- Also saw
 - Allen: Impact of intermittent VOC emissions
 - Keeler: Mercury sources
 - Napolitano: Impacts of CAIR/CAMR/...
 - Hildebrand: SIP modeling

Remember:

All models (and measurements) are flawed,
but some are useful