
Naphthalene State of the Science Symposium

A Progress Report
March 2, 2007

Planning Committee

1. Original

1. Rick Belzer
2. Ercole Cavalieri
3. Steve Lewis
4. Rick Pleus

2. Expanded

1. Jim Bus
2. Warner North

Commissioned Papers & Speakers

1. Paul Price
Exposure & Epidemiology
2. Dave Brusick
Genotoxicity Studies
3. Mitch Small
Uncertainty Analysis Tutorial

Research Speakers

1. Pre-symposium

1. Cavalieri (UNMC)
2. Rogan (UNMC)
3. Chakravarti (UNMC)
4. Nakamura (UNC)
5. Small (CMU)

2. Bioassays

1. Abdo (NTP)

3. Exposure & Epidemiology

1. Price (Lifeline Group)

1. MOA I

1. Plopper (UC Davis)
2. Van Winkle (UC Davis)
3. Buckpitt (UC Davis)
4. Clewell (CIIT)

2. MOA II

1. Brusick
2. Cavalieri

3. Uncertainty

1. Cohen (Tufts)

Expert Panelists

1. Benson (LLRI)
2. Dahl (OSU)
3. Morris (UConn)
4. Renne (Batelle)
5. Witchi (UC Davis)
6. Bogen (LLNL)
7. Price (Lifeline)
8. Weed (NCI)

1. Clewell (CIIT)
2. Krishnan (U Montreal)
3. Omiecinski (PSU)
4. Yost (U Utah)
5. Ding (SUNY Albany)
6. Longfellow (Tox Forum)
7. Nakamura (UNC)
8. Swenberg (UNC)

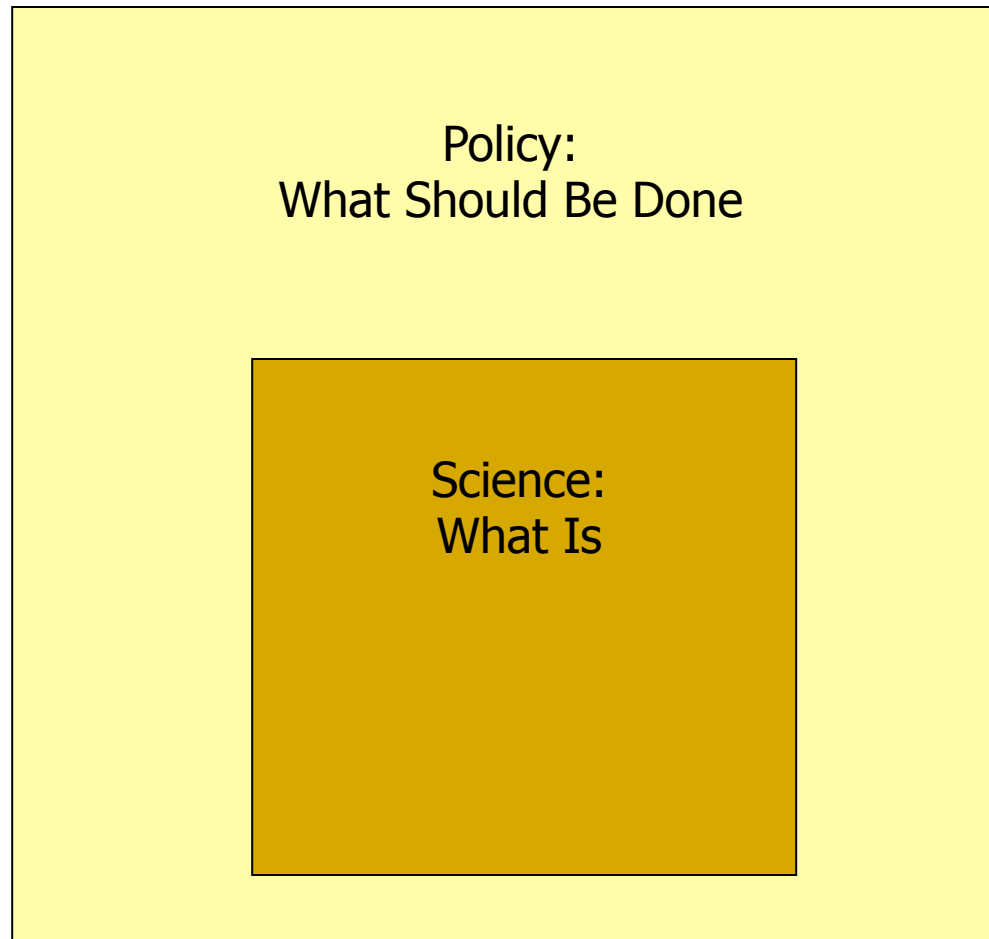
Module Facilitators

1. Warner North
2. Fumie Griego
3. Ken Bogen
4. Mitch Small

Scientific Charge

1. Knowledge and uncertainty:
 - What scientific statements can be made with a high degree of confidence?
 - What scientific statements cannot be made with a high degree of confidence?
2. Of those scientific statements that cannot be made with a high degree of confidence, which are quintessential uncertainties for human cancer risk assessment?
3. Considering quintessential scientific uncertainties:
 - What specific research projects could be undertaken promptly and cost-effectively that would resolve them?
 - How should results from such studies be interpreted?
4. What constitutes best scientific judgment about quintessential scientific uncertainties that cannot be addressed by science promptly and cost-effectively?

Scientific Charge



Scientific Charge

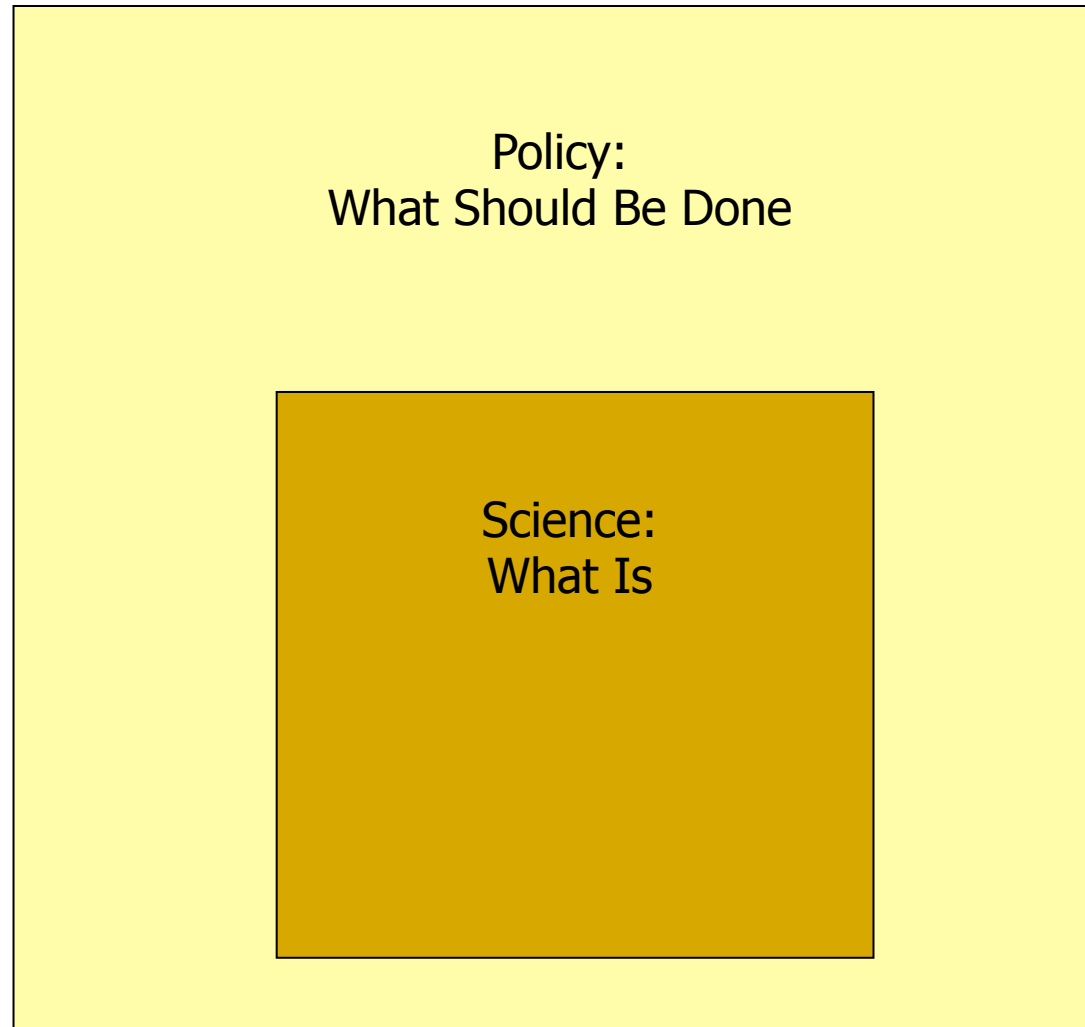
Joseph Albers,
“Homage to the Square,”
1955



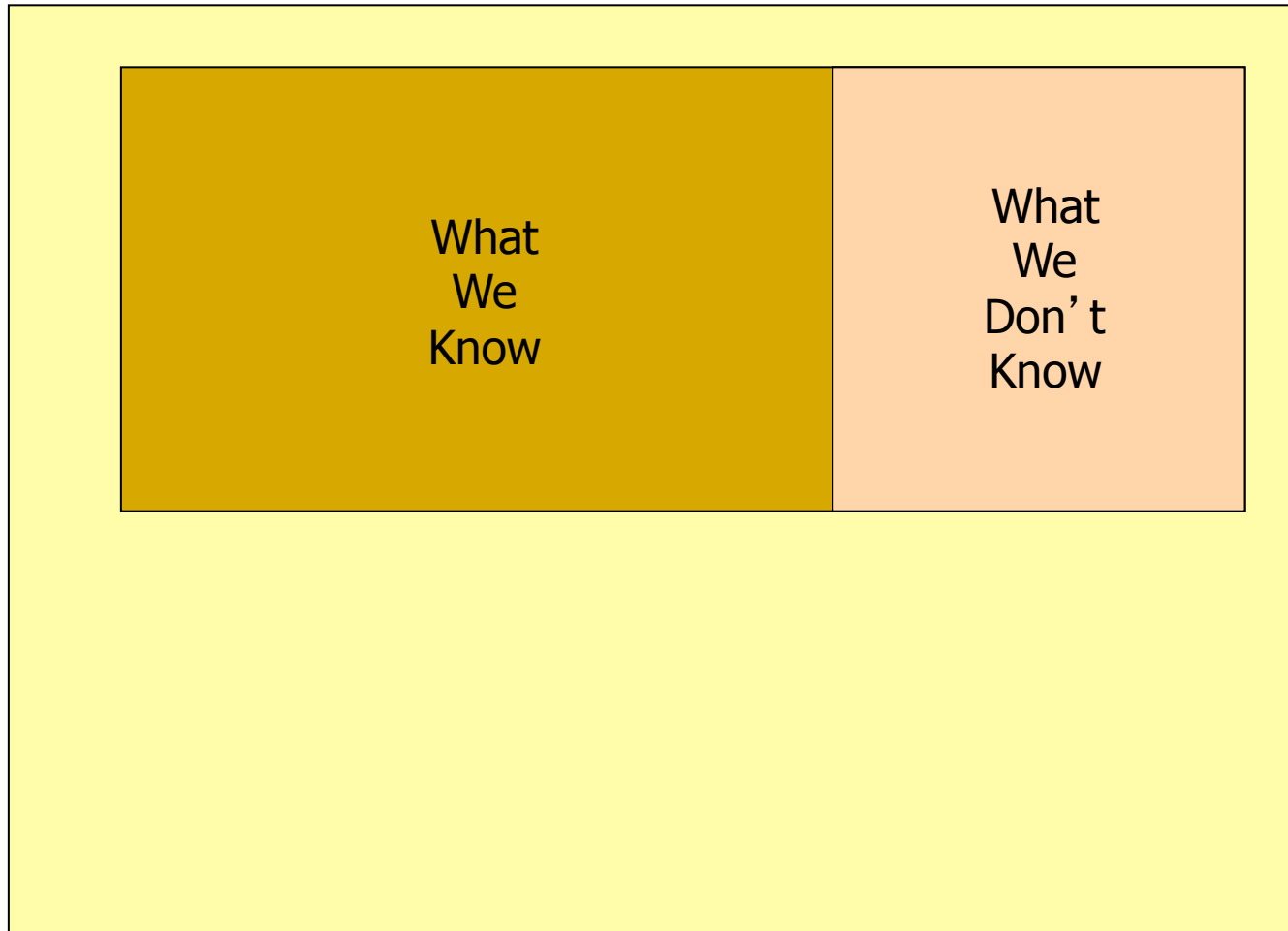
Homage to the Square
JOSEF ALBERS

1. Of those **scientific statements** that cannot be made with a high degree of confidence, which are **quintessential** uncertainties for human cancer risk assessment?
2. Knowledge and uncertainty:
 1. What **scientific statements** can be made with a high degree of confidence?
 2. What scientific statements cannot be made with a high degree of confidence?
3. Considering **quintessential scientific uncertainties**:
 1. What **specific research projects** could be undertaken **promptly** and **cost-effectively** that would resolve them?
 2. How should **results** from such studies be interpreted?
4. What constitutes best scientific judgment about **quintessential scientific uncertainties** that cannot be addressed by science promptly and cost-effectively?

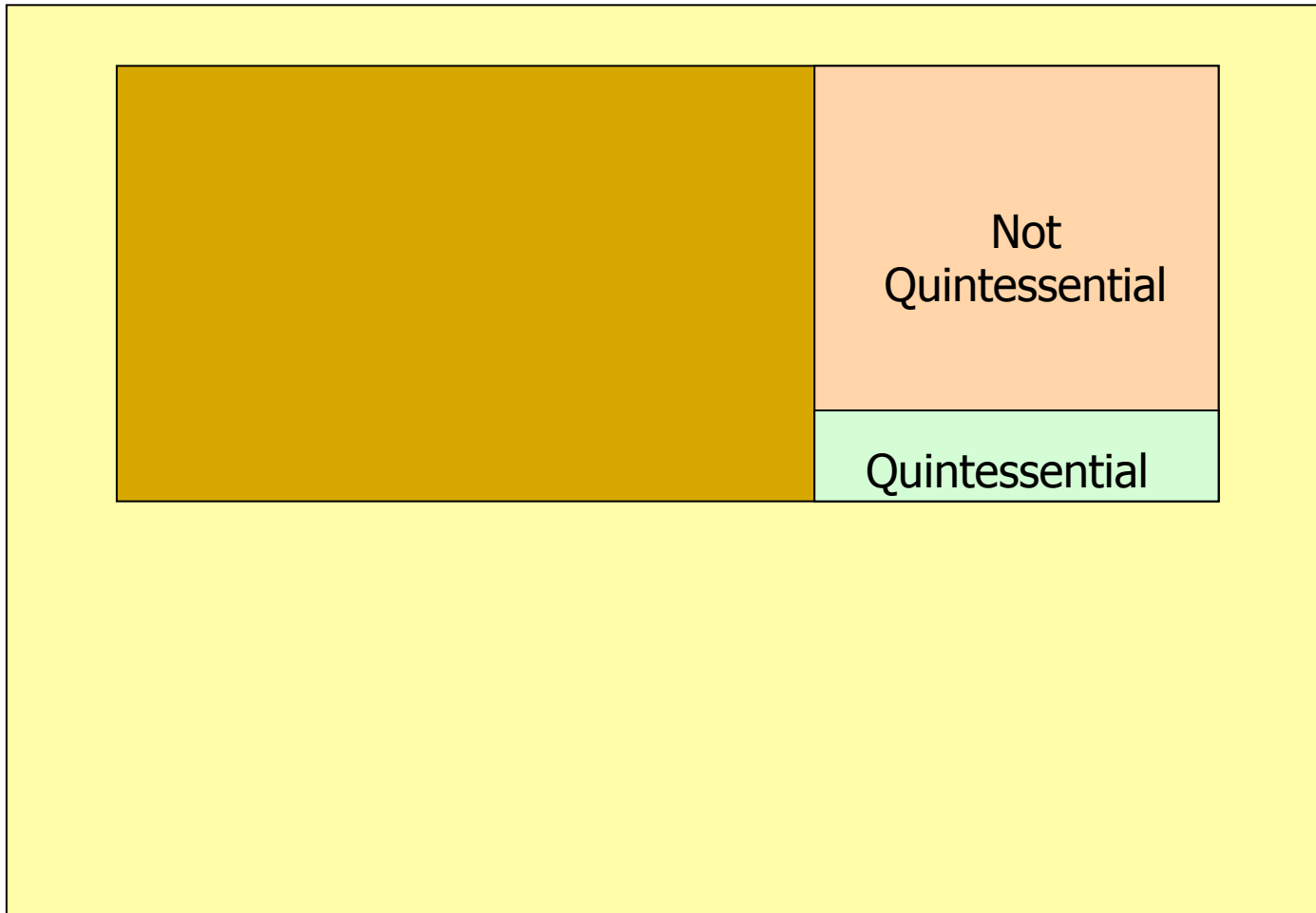
Scientific Charge



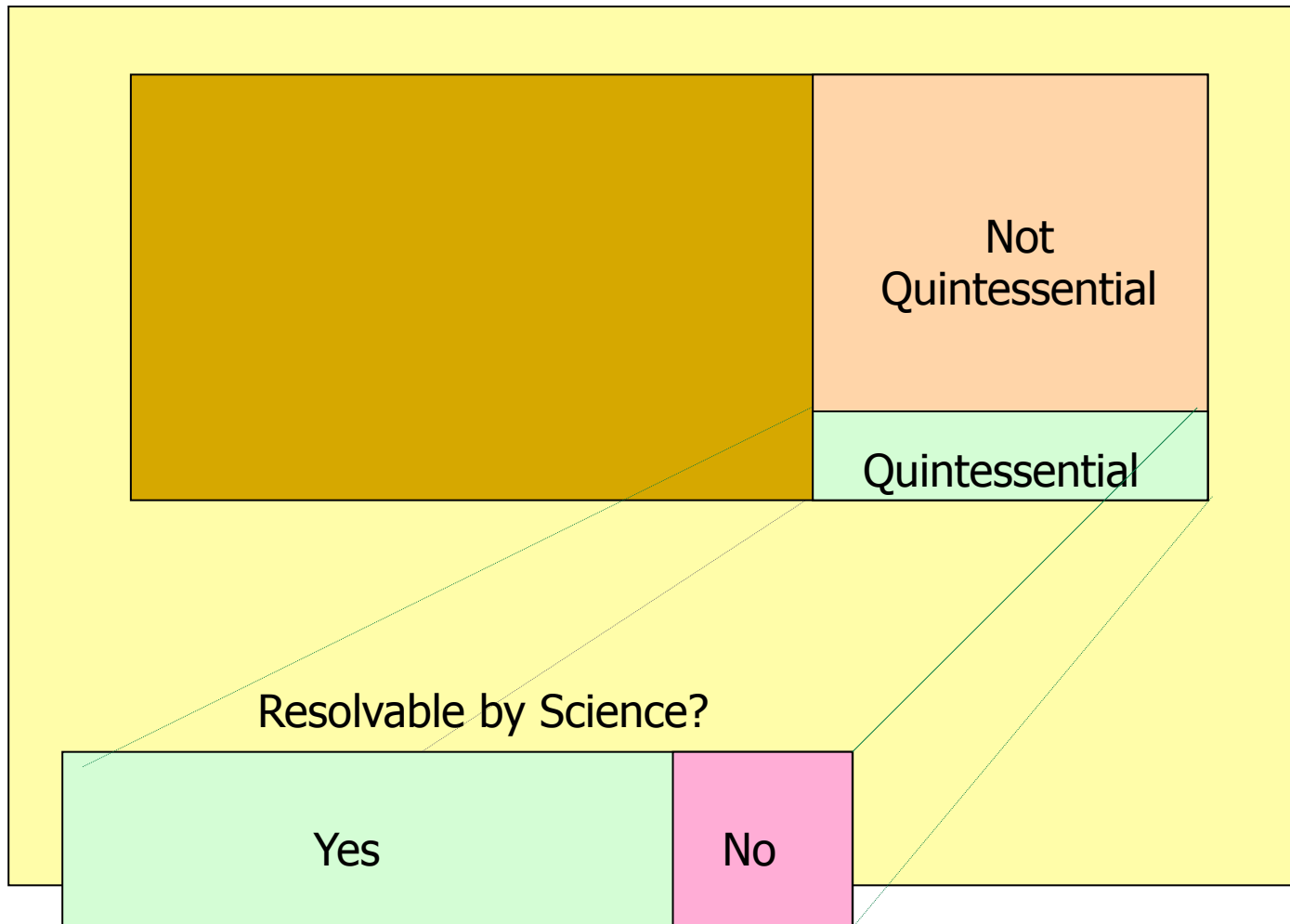
Scientific Charge



Scientific Charge



Scientific Charge



NS3 Performance Evaluation

- State of the science
- Research agenda
- Quintessential research only
- Uncertainty analysis
- Very effective
- Effective
- Improvement needed and underway
- Ineffective
 - Limited understanding
 - Excess self confidence among many research scientists
 - A future workshop is feasible

Next Steps

- Improving research proposals
 - Clarity
 - “Quintessentialness”
- Preparation and publication of journal article
- Sponsor briefings

Proposed Sponsor Briefings

- Separate half-day meetings with EPA and Naphthalene Coalition
- Presentations by experts, not Planning Committee members
- Each sponsor chooses invitation list
- Target date: late April