



SANTA FE INSTITUTE

## Modeling Technological Innovation

August 13 – 15, 2008  
Santa Fe, New Mexico

### Tuesday 12 August

7:00-9:00 PM Welcome Reception - Hotel Santa Fe

### Wednesday 13 August

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| 8:15        | Hotel Santa Fe Van departs to the Santa Fe Institute   |
| 8:30        | Breakfast  |
| 9:00-9:10   | Introduction   |
| 9:10 - 9:55 | <b>William D Nordhaus</b> (Yale University)  |
| 10:00-10:30 | Discussion   |
| 10:30-10:45 | Coffee Break   |
| 10:45-11:30 | <b>Nebojsa Nakicenovic</b> (International Institute for Applied Systems Analysis/Vienna University of Technology)                    |
| 11:30-12:00 | Discussion   |
| 12:15-1:30  | Buffet Luncheon  |
| 1:30-2:15   | <b>Chris Magee</b> (Massachusetts Institute of Technology), <i>Progress towards a “more useful theory” of Engineering Innovation</i> |
| 2:15-2:45   | Discussion   |
| 2:45-3:00   | Coffee Break   |
| 3:00-3:45   | <b>Tihamer Von Ghyczy</b> (University of Virginia), <i>Experience curves: Theory and Practice</i>                                    |

- 3:45-5:00 Discussion
- 5:15 Hotel Santa Fe Van departs Santa Fe Institute back to the Hotel Santa Fe
- 6:15 Short Walk to RISTRA Restaurant  
548 Agua Fria Street – (505)982-8608
- 6:30 Dinner in the garden at RISTRA Restaurant
- 9:30 Walk back to Hotel Santa Fe

#### **Thursday 14 August**

- 8:15 Hotel Santa Fe Van departs to the Santa Fe Institute
- 8:30 Breakfast
- 9:00-9:45 **Alessandro Nuvolari** (Eindhoven University of Technology), *Technical choice, Innovation and British Steam Engineering, 1800-1850*
- 9:45-10:15 Discussion
- 10:15-10:45 Coffee Break
- 10:45-11:30 **Joel Mokyr** (Northwestern University), *Cultural Evolution and the Beginning of Modern Economic Growth*
- 11:30-12:00 Discussion
- 12:15-1:30 Buffet Luncheon
- 1:30-2:15 **Doug Erwin** (Smithsonian Institution/SFI), *Patterns of Biological Innovation*
- 2:15-2:45 Discussion
- 2:45-3:00 Coffee Break
- 3:00-3:45 **W. Brian Arthur** (Palo Alto Research Center (PARC/SFI))

3:45-5:00 Discussion  
5:15 Hotel Santa Fe Van departs Santa Fe Institute back to the Hotel Santa Fe

**Friday 15 August**

8:15 Hotel Santa Fe Van departs to the Santa Fe Institute  
8:30 Breakfast  
9:00-9:30 **Alan McDonald** (International Atomic energy Agency (IAEA), *Nuclear Power + Learning Curves = Frustration(squared)*)  
9:30-9:40 Discussion  
9:40-10:10 **Gregory Nemet** (University of Wisconsin, Madison), *"Demand subsidies versus R&D: characterizing the uncertain impacts of policy for a pre-commercial low-carbon energy technology"*  
10:10-10:20 Discussion  
10:20-10:40 Coffee Break  
10:40-11:10 **Stephanie Forrest** (University of New Mexico/SFI), *"Design constraints for Technological networks"*  
11:10-11:20 Discussion  
11:20-11:50 **Rob Axtell** (George Mason University/SFI), *"Joint Evolution of Economic Goods, Technological Complexity, and Agent Welfare"*  
11:50-12:00 Discussion  
12:15-1:30 Buffet Luncheon  
1:30-5:00 Discussion  
2:45-3 :00 Coffee Break  
5:15 Hotel Santa Fe Van departs Santa Fe Institute back to the Hotel Santa Fe