



## **Minerals, Critical Minerals, and the U.S. Economy**

Committee on Critical Mineral Impacts of the U.S. Economy, Committee on Earth Resources, National Research Council

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*Workshop Agenda  
and Participants*

AGENDA

*Committee on Critical Mineral Impacts on the U.S. Economy*

Board on Earth Sciences and Resources  
National Research Council of the National Academies  
National Academy of Sciences Building, Members Room  
2100 C Street, NW, Washington, D.C.  
March 7-9, 2007

*Day 1—Wednesday, March 7, 2007*

**08:00-09:00**    **CLOSED SESSION**  
**(Committee and NRC Staff only, working breakfast)**

**09:00-16:30**    **OPEN SESSION (Open to public)**

09:00-09:15    Welcome and introductions                      *Rod Eggert, Chair*

09:15-12:15    **Critical mineral sources and materials flow—Panel 1**  
*Moderated by Tom Graedel*  
Presentations and discussion (25-minute presentations)  
Jeremiah Johnson (Hawaii Island Sustainable Energy Initiative)

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Shinsuke Murakami (National Institute for Environmental Studies, Japan)  
Mark Barton (University of Arizona)  
Larry Stevens (Consultant, Indium Corporation of America)

12:15–13:00 *Lunch*

13:00–16:00 **End users**—Panel 2 *Moderated by Stephen Freiman*  
Presentations and discussion (25-minute presentations)

Phil Jones (Imerys)  
Ivan Herring (General Motors Global Commodities)  
John Benner (National Renewable Energy Laboratory)  
James Marder (ASM International)

16:00–16:30 Concluding remarks *Rod Eggert*

*End of open session*

**16:30–20:00 CLOSED SESSION**  
**(Committee and NRC Staff only)**

*Day 2—Thursday, March 8, 2007*

**08:00–09:00 CLOSED SESSION**  
**(Committee and NRC Staff only)**

**09:00–16:30 OPEN SESSION (Open to public)**

09:00–09:15 Welcome and introductions *Rod Eggert, Chair*

**09:15–12:15 Potential constraints on availability and adjustment mechanisms**—Panel 3 *Moderated by Ann Carpenter*  
Presentations and discussion (25-minute presentations)

Rich Heig (Rio Tinto)  
Glenn Miller (University of Nevada Reno)

Lew Sloter (Department of Defense, Office of the Secretary of Defense)

Marc LeVier (Newmont Mining Corporation)

12:15–13:00 *Lunch*

13:00–16:00 **Information, data, and research—Panel 4**

*Moderated by Leonard Surges*

Presentations and discussion (25-minute presentations)

John DeYoung and Dave Menzie (U.S. Geological Survey)

David Cammarota (Department of Commerce)

Jason Goulden (Metals Economics Group)

16:00–16:30 Concluding remarks

*Rod Eggert*

*End of open session*

**16:30–17:30 CLOSED SESSION  
(Committee and NRC Staff only)**

*Day 3—Friday, March 9, 2007*

**08:00–14:30 CLOSED SESSION (Committee and NRC Staff)**

#### OTHER PARTICIPANTS

Mark Barton	University of Arizona
John Benner	National Renewable Energy Laboratory
David Cammarota	U.S. Department of Commerce
Mike Canty	U.S. Department of Energy
Leslie Coleman	National Mining Association
John DeYoung	U.S. Geological Survey
John Dilles	Oregon State University
Mark Ellis	Industrial Minerals Association
Nora Foley	U.S. Geological Survey

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Jason Goulden	Metals Economics Group
Linda Gundersen	U.S. Geological Survey
Rich Heig	Rio Tinto
Ivan Herring	GM Global Commodities
Ju Jin	Chinese Embassy
Jeremiah Johnson	Hawaii Island Sustainable Energy Initiative
Kate Johnson	U.S. Geological Survey
Phil Jones	Imerys
Mike Kaas	U.S. Bureau of Mines (retired)
Patrick Leahy	U.S. Geological Survey
Marc LeVier	Newmont Mining Corporation
James Marder	ASM International
David Menzie	U.S. Geological Survey
Glenn Miller	University of Nevada-Reno
Shinsuke Murakami	National Institute for Environmental Studies, Japan
Lauren Pagel	Earthworks
Carol Raulston	National Mining Association
David Russo	U.S. Geological Survey
Essie Schloss	Defense Logistics Agency
Lew Sloter	U.S. Department of Defense
Larry Stevens	Indium Corporation of America
Katie Sweeney	National Mining Association