

W. Brian Lambert

PhD. Candidate, Mineral and Energy Economics / Operations Research
Minor: Decision Analysis

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Education

Ph.D. (in work - expected Jan 2012) Mineral and Energy Economics / Operations Research

Colorado School of Mines, Golden, CO, USA.

Advisor: Dr. Alexandra Newman

Thesis proposal: "Techniques to Expedite Solution Time of the Open Pit Block Sequencing Problem"

M.S. Operations Research, March 2001

Naval Postgraduate School, Monterey, CA, USA.

Advisor: Dr. Alexandra Newman

Thesis title: "A Multi-Commodity Network-Based Heuristic for the Ship-To-Objective Maneuver"

B.A. General Physics, June 1989

University of California, Los Angeles, CA, USA.

Employment

Consultant and Senior Manager, Kromite, LLC, St. Louis, MO, USA 2006-2008.

Officer, U.S. Marine Corps, 1989-2005.

Enlisted, U.S. Marine Corps, 1981-1985

Academic and Teaching Experience

Grader, Decision Analysis, Colorado School of Mines, Fall 2010.

TA and grader, Networks, Colorado School of Mines, Spring 2009.

TA and grader, Linear Programming, Colorado School of Mines, Fall 2008.

Curriculum developer & instructor, 1 & 2 week long decision analysis courses for Domestic & International Finance Analysts, Fortune 500 client, 2007-08.

Chief of Naval Aviation Training (CNATRA) 1996 Academic Instructor of the Year

Instructor of 45-60 student classes, Naval Aviation Schools Command, Pensacola, FL, 1995-8

Topics taught: Aerodynamics, Aviation Weather, Aviation Navigation,
Aircraft Engines and Systems, Flight Rules and Regulations

Curriculum Development Officer, Naval Aviation Schools Command, Pensacola, FL, 1996-7

Night Vision Goggle (NVG) instructor, Helicopter Marine Medium 265, Kaneohe Bay, HI, 1994-5

Terrain Flight (TERF) instructor, Helicopter Marine Medium 265, Kaneohe Bay, HI, 1994-5

Graduate Course Work

Optimization

Linear and Advanced Linear Programming (Prof Alexandra Newman)

Integer Programming (Prof Alexandra Newman)

Non-Linear Programming (Dist. Prof Gerald Brown)

Network Models

Decision Analysis, Risk, Simulation, Stochastics

Decision Analysis, Risk and Advanced Decision Analysis (Prof Michael Walls)

Industrial Systems Simulation

Stochastic Models I & II

Stochastic Models and Management Science

Economics

Energy Economics (Prof Carol Dahl)

Mathematical Economics (Prof Daniel Kaffine)

Natural Resource Economics (Policy from the firm and government perspective)

Microeconomics (Applied microeconomics, optimal control theory, game theory)

Econometrics and Forecasting (Prof John Cuddington)

Economic Evaluation and Investment Decision Methods

Investments and Portfolio Management (Prof John Cuddington)

Publications

Lambert, W.B., Newman, A.M. "*Open Pit Block Sequencing Using Tailored Lagrangian Relaxation.*" Forthcoming

Lambert, W.B., Brickey, A., Eurek, K., Newman, A.M. "*Optimizing Long-term Production Scheduling at an Open Pit Mine.*" *Interfaces*, Forthcoming

Hattiangadi, A.U., Kimble, T.H., Lambert, W. B., Quester, A.O. "*Endstrength: Forecasting Marine Corps Losses Final Report.*" CNA Research Memorandum D0011188.A2, Center for Naval Analyses, February 2005

Lambert, William B., "*Total Cost for Non-Aviator Joint Terminal Attack Controller (JTAC) Policy.*" CNA Research Memorandum D0010247.A4/1Rev, Center for Naval Analyses, August 2004

Quester, A.O., Jareb, A.M., Lambert, W.B., Lee, L.G., Kimble, T.H. "*Manpower Critical Indicators Study: Final Report.*" CNA Research Memorandum D0006494.A2, Center for Naval Analyses, August 2002

Lambert, William B., "*A Multi-Commodity Network-Based Heuristic for the Ship-To-Objective Maneuver.*" Master's Thesis, Naval Postgraduate School, March 2001

Conference Presentations

INFORMS 2011 Annual Meeting, NC, USA, November 2011

Title of presentation: "Heuristics to Expedite the Solution Time of the Open Pit Block Sequencing Problem"

Society of Petroleum Engineers (SPE) ATEC Denver, CO, USA, October 2011

Panelist: "Economic Modeling in Oil and Gas Markets"

IFORS Annual Meeting Melbourne, VIC, Australia, June 2011

Title of presentation: "Techniques to Reduce Solution Time of the Open Pit Block Sequencing Problem."

INFORMS Annual Meeting Austin, TX, USA, November 2010

Title of presentation: "Portfolio Approach to Competitive Bidding for Offshore Petroleum Leases."

INFORMS Annual Meeting, San Diego, CA, USA, October 2009

Title of presentation: "Open Pit Block Sequencing Using Valid Cuts and Lagrangian Relaxation."

Workshop on Operations Research in Mining, Viña del Mar, Chile, December 2008

Joint presentation with Martin Gaupp, PhD

Title of presentation: "Methods for Improving the Tractability of the Block Sequencing Problem for Open Pit Mining."

The Fifth Annual Navy Workforce Research and Analysis Conference, VA, USA, April 2005

Title of presentation: "Forecasting the Inventory of USMC Aviators."

International Experience

Japan and Okinawa (4+ years)

Korea, Philippines, Thailand

Australia, New Zealand

France, Germany, Switzerland, Italy

Kuwait, Iraq

Chile