The 8th International Conference of the International Mesothelioma Interest Group

Conference Chairs:
Hedy Lee Kindler, MD and Samuel Armato, PhD

October 19-22, 2006
The Sheraton Chicago Hotel & Towers
Chicago, Illinois

Hosted by:
The University of Chicago
Pritzker School of Medicine
imig.uchicago.edu
PROGRAM OVERVIEW

The 8th International Conference of the International Mesothelioma Interest Group

Wednesday, October 18, 2006

7:30-9:30 pm Welcome Reception
The Signature Room
95th floor of the John Hancock Center

Thursday, October 19, 2006

7:00-8:00 Registration/Continental Breakfast

8:00-8:05 Introduction and Welcome
Hedy Lee Kindler and Samuel Armato
IMIG Conference Co-Chairs

8:05-9:55 The High-Risk Individual I
Session Chair: Joseph Testa (Philadelphia, PA) and Karl Kelsey (Boston, MA)

8:05-8:25 The mesothelioma epidemic in Cappadocia: The gene-environment interaction
Michele Carbone, Honolulu, HI

8:25-8:40 Abstract: Familial clustering of mesothelioma in subjects exposed to crocidolite at Wittenoom
Nicholas de Klerk, Subiaco, Australia

8:40-9:00 Polymorphisms in DNA repair genes as risk factors for asbestos-related malignant mesothelioma in a general population study
Irma Dianzani, Novara, Italy

8:40-9:00 Abstract: Vitamin A and cancer prevention in workers previously exposed to asbestos in Wittenoom
Chi Pang Wen, Taipei, Taiwan

9:00-9:20 A mouse model recapitulating genetic and signaling perturbations characteristic of human mesothelioma
Joseph Testa, Philadelphia, PA

9:20-9:40 Chemoprevention as an approach to control of carcinoma of the lung and mesothelioma
Michael Sporn, Hanover, NH

9:40-9:55 Abstract: Vitamin A and cancer prevention in workers previously exposed to asbestos in Wittenoom
IMIG Young Investigator Award
9:55-10:15 Break/Poster Viewing

10:15-11:40 The High-Risk Individual II
Session Chairs: Oluf Dimitri Roe (Trondheim, Norway) and Kyle Hogarth (Chicago, IL)

10:15-10:35 Biomarkers for malignant mesothelioma
Janette Creaney, Perth, Australia

10:35-10:55 Genomics for biomarker detection in mesothelioma
Harvey Pass, New York, NY

10:55-11:10 Abstract: Diagnostic and prognostic utility of soluble mesothelin-related peptides in malignant pleural mesothelioma
Bogdan-Dragos Grigoriu, Lille, France

11:10-11:25 ALA mediated fluorescence thoracoscopy in pleural diseases
Sjaak Burgers, Amsterdam, The Netherlands

11:25-11:40 Low-dose computed tomography in prior asbestos workers
Heidi Roberts, Toronto, Canada

11:40-12:40 Lunch

12:40-2:00 Pathogenesis: How Does Asbestos Cause Cancer?
Session Chairs: Marie-Claude Jaurand (Paris, France) and Michele Carbone (Honolulu, HI)

12:40-1:00 Plasticity of the mesothelium: A stem cell in the midst?
Steven Mutsaers, Perth, Australia

1:00-1:20 Cell signaling and transcription factor activation by asbestos
Brooke Mossman, Burlington, VT

1:20-2:00 DEBATE
SV40 plays a causative role in mesothelial cell carcinogenesis
Adi Gazdar, Dallas, TX

SV40 as a significant carcinogen in human mesothelioma and other cancers: An increasingly dubious hypothesis
Marc Ladanyi, New York, NY

Moderator: Steven Albelda, Philadelphia, PA

2:00-2:30 Break/Poster Viewing

2:30-4:15 Workshop: The Clinical Relevance of Mouse Models for Mesothelioma
Co-Chairs: Richard Lake (Perth, Australia) and Sjaak Burgers (Amsterdam, The Netherlands)

2:30-2:40 Animal models: An overview
Steven Albelda, Philadelphia, PA

2:40-2:45 An SV40 TAg transgenic model of asbestos-induced mesothelioma
Richard Lake, Perth, Australia

2:45-2:55 Abstract: Gene expression profiling in an SV40 large T antigen expressing transgenic mouse mesothelioma model. Implications for a role for SV40 in human mesothelioma?
Andrew Holloway, East Melbourne, Australia

IMIG Young Investigator Award

2:55-3:00 A conditional knockout model for mesothelioma
Sjaak Burgers, Amsterdam, The Netherlands

3:00-3:10 Abstract: A conditional knockout model for malignant mesothelioma. A model for in vivo and in vitro therapeutic strategies
Johan Jongsma, Amsterdam, The Netherlands

3:10-3:20 Abstract: Loss of functional Arf predisposes mice to asbestos-induced mesothelioma
Deborah Altomare, Philadelphia, PA

3:20-3:30 Abstract: Local recurrence model of malignant pleural mesothelioma and investigation of local adjuvant treatment after surgery
Walter Weder, Zurich, Switzerland

3:30-3:40 Abstract: Development of a malignant mesothelioma model with defined genetic elements
Tan Ince, Boston, MA

3:40-3:50 Abstract: Tumor infiltrating macrophages in murine malignant mesothelioma: Targeting macrophages for tumor therapy
Bernadette Scott, Victoria, Australia

3:50-4:15 DISCUSSION

Posters

SV40 oncoproteins and p53 deficiency impair stress-induced mesothelial cell senescence
Jodie Pietruska, Providence, RI

Monitoring tumor growth by imaging of a human mesothelioma murine model
Pietro Bertino, Novara, Italy

A novel murine mesothelioma model of malignant pleural effusion
Masaki Anraku, Toronto, Canada

Clinico-pathologic features of murine mesothelioma induced by natural or synthetic fibers
Pascal Andujar, Creteil, France
2:30-4:15 Workshop: Developing the Next Generation of Clinical Trials for Mesothelioma: What are the Key Questions and How Should We Answer Them?  
**Co-Chairs:** Anna Nowak (Perth, Australia) and Paul Baas (Amsterdam, The Netherlands)

2:30-2:45 Potential pitfalls in the evaluation of new drugs for mesothelioma: Lessons from the past  
Paul Baas, Amsterdam, The Netherlands

2:45-2:55 **Abstract:** Prognosis of malignant pleural mesothelioma: Subtype more important than stage. A study from the Nordic Mesothelioma Groups  
Gunnar Hillerdal, Stockholm, Sweden

2:55-3:10 Design issues in phase II/III clinical trials in mesothelioma  
Richard Stephens, London, United Kingdom

3:10-3:25 Functional and patient-rated endpoints in clinical trials  
Anna Nowak, Perth, Australia

3:25-3:40 **Abstract:** Is there a correlation between pathologic response and radiographic response and what does this mean?  
Dean Fennell, Belfast, United Kingdom

3:40-4:15 PANEL DISCUSSION  
Jeremy Steele, London, United Kingdom

5:30-9:30 Field Museum Extravaganza  
4:45 Trolleys depart from the Sheraton Chicago Hotel & Towers

5:30-7:30 Guided tour of the exhibition, “Tutankhamun and the Golden Age of Pharaohs”

7:30-8:30 Dinner

9:30 Trolleys return to the Sheraton Chicago Hotel & Towers

**Friday, October 20, 2006**

7:00-8:00 Continental Breakfast

8:00-10:05 Epidemiology I  
**Session Chairs:** Gunnar Hillerdal (Stockholm, Sweden) and Julian Peto (London, United Kingdom)

8:00-8:20 **Abstract:** South Africa: The first link between asbestos and mesothelioma, but not the last word?  
James teWaterNaude, Capetown, South Africa

8:20-8:40 **Abstract:** The mesothelioma epidemic: Occupational, environmental, and spontaneous cases  
Julian Peto, London, United Kingdom

8:40-8:55 **Abstract:** The global asbestos epidemic and its reflections in the recent Japanese experience  
Ro-Ting Lin, Kitakyushu, Japan

Patrick Rolland, Bordeaux, France

9:10-9:30 Health effects among World Trade Center responders  
Steven Levin, New York, NY

9:30-9:50 **Abstract:** Pleural abnormalities and exposure to asbestos-contaminated vermiculite in Libby, Montana: A twenty year follow-up study  
James Lockey, Cincinnati, OH

9:50-10:05 **Abstract:** Mesothelioma update for Libby, Montana: Occupational and non-occupational  
Bruce Case, Montreal, Canada

10:05-10:30 Break/Poster Viewing

10:30-12:20 Epidemiology II  
**Session Chairs:** Tushar K. Joshi (Delhi, India) and Chi Pang Wen (Taipei, Taiwan)

10:30-10:50 **Abstract:** Australia: Wittenoom and beyond  
Nicholas de Klerk, Subiaco, Australia

10:50-11:05 **Abstract:** Age and sex differences in malignant mesothelioma after residential exposure to blue asbestos (crocidolite)  
Alison Reid, Crawley, Australia

11:05-11:30 **Abstract:** The rising toll of mesothelioma in Egypt  
Rabab Gaafar, Cairo, Egypt
11:25-11:40 Mesothelioma in Turkey: A rural disease
Muzaffer Metintas, Eskisehir, Turkey

11:40-12:00 Asbestos-related diseases from environmental exposure to crocidolite in Da-yao, China:
An update study on mesothelioma and lung cancer mortality from a residentially exposed cohort and from local surveys and statistics
Chi Pang Wen, Taipei, Taiwan

12:00-12:20 Asbestos use in India: Magnitude of risk and impact on health
Tushar K. Joshi, Delhi, India

10:20-12:30 Workshop: Immunology and Immunotherapy of Mesothelioma
Co-Chairs: Bruce Robinson (Perth, Australia) and Steven Albelda (Philadelphia, PA)

10:20-10:35 Combining immunotherapy with chemotherapy to treat mice with mesothelioma
Richard Lake, Perth, Australia

10:35-10:50 What is the evidence in patients that there is any immune response to mesothelioma
and/or that immunotherapy ever works?
Bruce Robinson, Perth, Australia

10:50-11:00 Abstract: Targeting the tumor microenvironment: A novel immunotherapy that cures large
mesothelioma tumors by engaging neutrophils, CD8+ T cells, and tumor blood vessels
Delia Nelson, Bentley, Australia

11:00-11:15 Altering the tumor microenvironment to augment immunotherapy for mesothelioma
Steven Albedo, Philadelphia, PA

11:15-11:45 The importance of stroma in the development and destruction of cancers
Hans Schreiber, Chicago, IL

11:45-12:00 Antibody-based treatment for mesothelioma: Clinical trials and laboratory studies
Raffit Hassan, Bethesda, MD

12:00-12:10 Abstract: Murine mesothelioma treatment with peri-tumoral injections of CpG alone
or combined with CD40 ligand
Richard Kornbluth, La Jolla, CA

12:10-12:20 Abstract: Dendritic cell-based immunotherapy for malignant pleural mesothelioma
Joost Hegmans, Rotterdam, The Netherlands

12:20-12:30 Abstract: Identifying and targeting a spectrum of internalizing cell surface antigens
expressed by mesothelioma
Bin Liu, San Francisco, CA

Posters

Immune profile of peripheral and pleural fluid T cells in malignant mesothelioma and pleural metastasis of adenocarcinoma
Arnaud Scherpereel, Lille, France

Stimulation of macrophage toxicity for mesothelioma cells by anti-CD14 antibody
Marie-Marthe Phillippeaux, Geneva, Switzerland

A photodynamic therapy generated tumor vaccine in an orthotopic murine malignant mesothelioma model
Joseph Friedberg, Philadelphia, PA

Chemokine receptors are rarely expressed on malignant or benign mesothelial cells
Ben Davidson, Oslo, Norway

Efficient induction of mesothelioma-specific cytotoxic T cell responses by cross presentation of apoptotic
HSP70-overexpressing mesothelioma cells by dendritic cells
Marc Gregoire, Nantes, France

12:20-1:45 Lunch

1:45-3:15 Genetics
Session Chairs: Andrew Holloway (East Melbourne, Australia) and Raphael Bueno (Boston, MA)

1:45-2:05 Asbestos, chromosomal deletions and tumor suppressor gene alterations in human
malignant mesothelioma
Marie-Claude Jaurand, Paris, France

2:05-2:20 Abstract: Asbestos-associated malignancies in the lung and pleura show distinct
genetic aberrations
Pamela Lindholm, Helsinki, Finland

2:20-2:40 Proteomic methods to identify novel therapeutic targets in malignant mesothelioma
Pasi Janne, Boston, MA

2:40-2:55 Abstract: Gene expression profiling of malignant peritoneal mesothelioma identifies
novel targets for therapeutic intervention
Sheelu Varghese, Baltimore, MD
IMIG Young Investigator Award

2:55-3:15 Prognostic gene ratio test for mesothelioma validated in a prospective clinical trial
Raphael Bueno, Boston, MA

3:15-3:40 Break/Poster Viewing
1:45-5:45 Supportive Care Satellite Symposium
Co-Chairs: Martin Muers (Leeds, United Kingdom) and Helen Clayson (Cumbria, United Kingdom)

1:45-2:10 The scope of supportive palliative care for malignant mesothelioma in the 21st century
Martin Muers, Leeds, United Kingdom

2:10-2:35 The management of breathlessness in mesothelioma
Sara Booth, Cambridge, United Kingdom

2:35-3:00 Managing pain in mesothelioma
WWA Zurmond, Amsterdam, The Netherlands

3:00-3:10 Abstract: Malignant mesothelioma and cachexia: Description of body composition changes in 27 patients receiving chemotherapy
Nick Pavlakis, Sydney, Australia

3:10-3:35 Managing effusions: When and how to intervene
Daniel Miller, Atlanta, GA

3:35-3:45 Abstract: Pleurodiesis in follow-up and treatment of malignant pleural mesothelioma patients
Guntulu Ak, Eskisehir, Turkey

3:45-3:55 Abstract: The evaluation of local dissemination on intervention sites in malignant pleural mesothelioma patients and indications for prophylactic radiotherapy
Huseyin Yildirim, Eskisehir, Turkey

IMIG Travel Award

3:55-4:10 BREAK

4:10-4:35 Patients’ and carers’ experience of mesothelioma
Helen Clayson, Cumbria, United Kingdom

4:35-4:55 The nurse’s role in mesothelioma
Tamara Guterz, Chicago, IL

4:55-5:20 Asbestos disease: A Canadian case study
James Mackenzie, Sarnia, Canada

5:20-5:45 PANEL DISCUSSION

Posters

Rates of thromboembolic events in patients with mesothelioma
Claire Verschraegen, Albuquerque, NM

Increased pleural fluid ADA level in patients with malignant mesothelioma: A potential predictor for the outcome of talc pleurodiesis
Huseyin Yildirim, Eskisehir, Turkey

Developing a National Resource Centre for Mesothelioma in the UK
Liz Darlison, Leicester, United Kingdom

3:45-5:45 Imaging Workshop
Co-Chairs: Samuel Armato (Chicago, IL) and James Entwisle (Leicester, United Kingdom)

3:45-4:05 Imaging malignant pleural mesothelioma: Clinical applications and challenges
James Entwisle, Leicester, United Kingdom

4:05-4:25 The evolution of imaging-based tumor response evaluation in mesothelioma
Samuel Armato, Chicago, IL

4:25-4:40 Abstract: Use of 18F-FDG PET imaging in staging and prediction of survival for malignant pleural mesothelioma
Anna Nowak, Perth, Australia

4:40-4:55 Abstract: Early response evaluation in malignant pleural mesothelioma by positron emission tomography with 18F-fluorodeoxyglucose
Giovanni Luca Ceresoli, Milan, Italy

4:55-5:10 Abstract: Development of a computer model for volumetric response assessment in mesothelioma
Binsheng Zhao, New York, NY

5:10-5:45 PANEL DISCUSSION

James Entwisle (Leicester, UK), Heber MacMahon (Chicago, IL), Mylene Truong (Houston, TX) and Samuel Armato (Chicago, IL)

Posters

FDG PET/CT in malignant pleural mesothelioma: Is there a histological difference between hot and cold areas?
Peter Kestenholz, Zurich, Switzerland

Molecular bioprobes for imaging malignant mesothelioma
Ripen Misri, Vancouver, Canada

Spontaneous regression of diffuse malignant pleural mesothelioma with no treatment: Two case reports
Astero Klabatsa, London, United Kingdom

3:40-4:05 Tumor Biology: Oral Abstracts and Poster Discussion
Session Chairs: Steven Mutsaers (Perth, Australia) and Pasi Janne (Boston, MA)

3:40-3:55 Abstract: Asbestos burden, epigenetic silencing, and survival in malignant pleural mesothelioma
Brock Christensen, Boston, MA

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3:55-4:10 Abstract: Pathway signatures of biphasic and epithelial mesothelioma identify the ubiquitin-proteasome pathway as a therapeutic target in poor prognosis tumors
Charles Powell, New York, NY
Abstract: TNF-α inhibits asbestos-induced cytotoxicity via a NF-κB dependent pathway: A possible mechanism for asbestos-induced oncogenesis
Haining Yang, Honolulu, HI

Abstract: Oxidative stress gene modulation in pleural mesothelioma as assessed by microarray in vitro, ex-vivo, and in-situ analysis
Bertrand Rihn, Nancy, France

Abstract: NF-κB provides a survival signal to human mesothelial and mesothelioma cells exposed to asbestos fibers
Luciano Mutti, Vercelli, Italy

Abstract: Semi-quantitative analysis of growth factor gene expression in the lungs and pleura by laser capture microscopy
Arnold Brody, New Orleans, LA

Poster Discussion
Crocidolite asbestos and SV40 are co-carcinogens in human mesothelial cells and in causing mesothelioma in humans
Michele Carbone, Honolulu, HI

Microarray of normal mesothelium and mesothelioma—visceral and parietal pleura has distinct gene expression profile—consequences for oncogenesis of mesothelioma?
Oluf Dimitri Roe, Trondheim, Norway

Ras pathway activation in malignant mesothelioma
Robert Kratzke, Minneapolis, MN

5:05-5:20 Discussant: Steven Mutsaers, Perth, Australia

Alterations of the G1 checkpoints in malignant pleural mesothelioma in relation to pathogenesis and survival
Rabab Gasfar, Cairo, Egypt

An integrated analysis of chromosomal alteration and gene expression in malignant mesothelioma
Andrew Holloway, East Melbourne, Australia

Expression of Snail, Slug, and Sip1 in malignant mesothelioma effusions is associated with matrix metalloproteinase, but not with cadherin expression
Ben Davidson, Oslo, Norway

5:20-5:35 Discussant: Pasi Janne, Boston, MA

Bortezomib accelerates BAX BAK dependent mitochondrial depolarization in malignant pleural mesothelioma cells
Dean Fennell, Belfast, United Kingdom

Cisplatin-induced apoptosis in malignant pleural mesothelioma cells involves p53 but not p14ARF
Thomas Marti, Zurich, Switzerland

Anoikis resistance in malignant pleural mesothelioma cells
Julien Daubriac, Paris, France

Role of Notch signaling in human malignant mesothelioma
Irene Graziani, Maywood, IL

Bax and Bak immuno-reactivity in malignant pleural mesothelioma
Astero Klabatsa, London, United Kingdom

Inhibition of survivin and aurora B kinase radiosensitizes mesothelioma cells by enhancing mitotic arrest
Bo Lu, Nashville, TN

5:35-5:55 Discussant: Giovanni Gaudino, Novara, Italy

Posters
DNA copy number profiling in malignant pleural mesothelioma by array CGH
Pamela Lindholm, Helsinki, Finland

An integrated genomic approach to understanding the determinants of mesothelioma sensitivity to specific novel agents
Shigeki Shimizu, New York, NY

SV40 infection can promote full oncogenicity of human mesothelial cells
Maurizio Bochetta, Maywood, IL

Establishment and characterization of four malignant pleural mesothelioma cell lines from Japanese patients
Noriyasu Usami, Nagoya, Japan

5:45-7:30 Reception at the Riverside Exhibition Hall Promenade
Sheraton Chicago Hotel & Towers

Free evening to enjoy Chicago’s wonderful restaurants and theaters

IMIG Board of Directors Meeting
Saturday, October 21, 2006

7:00-8:00 Continental Breakfast

8:00-10:00 Non-Pleural Mesothelioma

**Session Chairs:** Claire Verschraegen (Albuquerque, NM) and H. Richard Alexander (Baltimore, MD)

**8:00-8:15** Mesotheliomas of the pericardium and tunica vaginalis
Raffit Hassan, Bethesda, MD

**8:15-8:30** Understanding the terminology and pathology of peritoneal mesothelioma
Victor Roggli, Durham, NC

**8:30-8:45 Abstract:** Potential of survivin as a new therapeutic target in diffuse malignant mesothelioma of the peritoneum
Nadia Zaffaroni, Milan, Italy

**8:45-9:05** Aggressive surgical cytoreduction with hyperthermic intraperitoneal chemoperfusion for patients with malignant mesothelioma
James Pingpank, Bethesda, MD

**9:05-9:20 Abstract:** Multimodality regional therapy for peritoneal mesothelioma
John Chabot, New York, NY

**9:20-9:40** Diffuse malignant peritoneal mesothelioma treated by cytoreductive surgery and hyperthermic intraperitoneal chemotherapy: Experience of NCI of Milan
Marcello Deraco, Milan, Italy

**9:40-10:00** Prospective evaluation of quality of life after tumor cytoreduction and intraperitoneal chemotherapy in patients with peritoneal mesothelioma and other peritoneal surface malignancies
H. Richard Alexander, Baltimore, MD

**Posters**

**Phase II trial of vinorelbine chemotherapy in patients with malignant peritoneal mesothelioma**
Jeremy Steele, London, United Kingdom

**A systematic review on the efficacy of cytoreductive surgery combined with peri-operative chemotherapy for diffuse malignant peritoneal mesothelioma: An evolution of treatment strategies**
Paul Sugarbaker, Washington, DC

**In vitro drug resistance levels do not correlate with prognosis in patients with peritoneal mesothelioma**
Krunal Patel, New York, NY

**Critical analysis of nuclear size as an assessment of prognosis in diffuse malignant peritoneal mesothelioma**
Paul Sugarbaker, Washington, DC

**8:00-10:40 Workshop: Surgical Pitfalls and Challenges for Pleural Mesothelioma: Optimizing Your Technique**

David Sugarbaker (Boston, MA) and Walter Weder (Zurich, Switzerland)

**8:00-8:20** Technical considerations of extrapleural pneumonectomy
David Sugarbaker, Boston, MA

**8:20-8:35** Pericardial and diaphragmatic reconstruction
Hasan Batirel, Istanbul, Turkey

**8:35-8:50** Techniques of intra-operative chemotherapy
Lambros Zellos, Boston, MA

**8:50-9:10** Operative complications: Diagnosis and treatment
Walter Weder, Zurich, Switzerland

**9:10-9:20 Abstract:** Risk factors for major complications after extrapleural pneumonectomy
Marc de Perrot, Toronto, Canada

**9:20-9:30 Abstract:** Management of complications following extrapleural pneumonectomy
Hendrik Dienemann, Heidelberg, Germany

**9:30-9:45** Pre-operative assessment and criteria for patient selection
Loic Lang-Lazdunski, London, United Kingdom

**9:45-9:55 Abstract:** Invasive staging for mesothelioma reveals radiographically occult distant metastatic disease
Joseph Friedberg, Philadelphia, PA

**9:55-10:15** Pleurectomy/decortication for malignant pleural mesothelioma: Technique and comments
Harvey Pass, New York, NY

10:15-10:40 PANEL DISCUSSION

10:20-11:45 Peritoneal Mesothelioma Workshop

**Co-Chairs:** Paul Sugarbaker (Washington, DC) and Raffit Hassan (Bethesda, MD)

**10:20-10:35** Optimal treatment for patients with newly diagnosed peritoneal mesothelioma
James Pingpank, Bethesda, MD

**10:35-10:50** Peritoneal mesothelioma: Treatment options for patients who are not candidates for surgery
Claire Verschraegen, Albuquerque, NM

**10:50-11:05** Staging of peritoneal mesothelioma?
Paul Sugarbaker, Washington, DC

**11:05-11:25** Multi-center clinical trials for peritoneal mesothelioma: Can they be done and what are the questions to be answered?
Raffit Hassan, Bethesda, MD
11:25-11:45  PANEL DISCUSSION  
Claire Verschraegen (Albuquerque, NM), Victor Roggli (Durham, NC), James Pingpank (Bethesda, MD), Marcello Deraco (Milan, Italy) and H. Richard Alexander (Baltimore, MD)

8:00-9:55  Epidemiology III: Oral Abstracts and Poster Discussion  

Session Chair: James teWaterNaude (Capetown, South Africa) and Nicholas de Klerk (Subiaco, Australia)

8:00-8:15  Abstract: Exposure to polio vaccine possibly contaminated with simian virus 40 and subsequent risk of malignant mesothelioma  
Kristina Kjaerheim, Oslo, Norway

8:15-8:30  Abstract: Malignant mesothelioma as a second primary malignancy  
Sjaak Burgers, Amsterdam, The Netherlands

8:30-8:45  Abstract: The mesothelioma epidemic and the hidden asbestos lung cancer epidemic  
Christine Rake, Surrey, United Kingdom

8:45-9:00  Abstract: Quantifying the risks of mesothelioma and lung cancer from environmental crocidolite exposure in Da-yao, China  
Ting-Yuan David Cheng, Baltimore, MD

IMIG Young Investigator Award

9:00-9:15  Abstract: The French National Mesothelioma Surveillance Program  
Marcel Goldberg, Saint-Maurice, France

Poster discussion

Quantitative estimation of the risk of lung cancer and pleural mesothelioma among automobile mechanics in France  
Marcel Goldberg, Saint-Maurice, France

A cluster of 5 cases of malignant pleural mesothelioma among the faculty of a university asbestos insulated campus  
Marcel Goldberg, Saint-Maurice, France

Occupational asbestos exposure, possible mesothelioma, and reimbursement  
Paul Baas, Amsterdam, The Netherlands

Trend of mesothelioma morbidity in the Sverdlovsk Region of the Russian Federation  
Sergey Kashansky, Ekaterinburg City, Russian Federation

9:15-9:35  Discussant: James teWaterNaude, Capetown, South Africa

9:35-9:55  Discussant: Nicholas de Klerk, Subiaco, Australia

Posters

Benign neoplasms of the pleura in the structure of mesothelioma incidence  
Sergey Kashansky, Ekaterinburg City, Russian Federation

Risk assessment of malignant pleural mesothelioma related to long-term exposure to radiation factors  
Sergey Kashansky, Ekaterinburg City, Russian Federation

Mesothelioma in Russia: Review of 3,259 published cases  
Sergey Kashansky, Ekaterinburg City, Russian Federation

Prognostic factors and survival of malignant mesothelioma in Korea  
Hyoung-Ryoul Kim, Seoul, Korea

Clinico-pathologic analysis of malignant mesothelioma in Korea  
Soon-Hee Jung, Wonju, Korea

Asbestos problems in India: A revisit  
V. Subramanian, New Delhi, India

10:30-11:10  The High-Risk Individual III: Poster Discussion  
Session Chair: Robert Kratzke (Minneapolis, MN)

DNA methylation profile of 28 candidate marker loci in malignant mesothelioma  
Ite Laird-Offringa, Los Angeles, CA

Asbestos exposure and genetic susceptibility to malignant pleural mesothelioma  
Stalo Karageorgi, Boston, MA

Effects of long-term supplementation with retinol on plasma, malignant mesothelioma, lung cancer, and potential side effects in the Wittenoom cohort  
Heiman Alfonso, Crawley, Australia

10:30-10:50  Discussant: Robert Kratzke, Minneapolis, MN

Predictive and/or a diagnostic significance of serum soluble mesothelin related proteins in asbestos-related pleural malignant mesothelioma: Follow-up of a large population of workers previously exposed to asbestos  
Luciano Mutti, Vercelli, Italy

Discovery and validation of novel serological biomarkers of mesothelioma  
Anil Vachani, Philadelphia, PA

Prediagnostic soluble mesothelin related protein, CA125, CYFRA 21-1 and risk of mesothelioma: A case-control study  
Oluf Dimitri Roe, Trondheim, Norway

10:50-11:10  Discussant: Harvey Pass, New York, NY
Posters

Analysis of NAT2 genotypes as risk factors for asbestos-related malignant mesothelioma in a general population study
Marta Bettì, Novara, Italy

Low-dose computed tomography in workers previously exposed to asbestos: Detection of parenchymal lung disease
Demetris Patsios, Toronto, Canada

Low-dose computed tomography in prior asbestos-exposed workers: Assessment of pleural plaques and screening for lung cancer and malignant mesothelioma
Hamid Bayanati, Toronto, Canada

Soluble mesothelin-related protein is a useful biomarker for malignant mesothelioma developed in Japan
Kazuya Fukuoka, Hyogo, Japan

Combination of cell-surface and soluble mesothelin expressions are required to discern epithelioid mesothelioma cells
Marc Gregoire, Nantes, France

Serum tumor marker of human asbestos-related mesothelioma: Translational research from a hereditary rat cancer model
Okio Hino, Tokyo, Japan

Re-evaluation of plasma osteopontin as a tumor marker for mesothelioma
Kazu Shiomi, Tokyo, Japan

8:00-11:45 Apoptosis Satellite Symposium

8:00-11:45 Apoptosis Satellite Symposium
Co-Chairs: Courtney Broadus (San Francisco, CA) and Dean Fennell (Belfast, United Kingdom)

8:00-8:15 An apoptosis primer
Dean Fennell, Belfast, United Kingdom

Session I: Intrinsic pathway and caspases

8:15-8:35 BCL-2 family members in mesothelioma
Michael Lind, Hull, United Kingdom

8:35-8:55 Small molecule inhibition of the BCL-2 family
Saul Rosenberg, Chicago, IL

8:55-9:15 Regulation of cell survival in malignant pleural mesothelioma by Inhibitor of Apoptosis Proteins
Gavin Gordon, Boston, MA

9:15-9:30 DISCUSSION

Session II: The extrinsic pathway and its regulation

9:30-10:00 A novel role of the death receptor CD95 as a tumor promoter
Marcus Peter, Chicago, IL

10:00-10:20 TRAIL and damage pathways converge to induce synergistic apoptosis
Courtney Broadus, San Francisco, CA

10:20-10:30 DISCUSSION

Session III: Resistance pathways

10:30-10:50 Three-dimensional models of mesothelioma and multi-cellular apoptotic resistance
Dario Barbone, San Francisco, CA

10:50-11:10 Wnt targeted therapies for mesothelioma
David Jablons, San Francisco, CA

11:10-11:30 Receptor tyrosine kinase pathways and cell survival in mesothelioma
Giovanni Gaudino, Novara, Italy

11:30-11:45 DISCUSSION

11:45-1:00 Joint Lunch with the attendees of the Mesothelioma Applied Research Foundation Symposium

8:00-11:45 Surgery and Multi-Modality Therapy for Pleural Mesothelioma: Controversy and Consensus

8:00-11:45 Surgery and Multi-Modality Therapy for Pleural Mesothelioma: Controversy and Consensus
Session Chairs: Hasan Batirel (Istanbul, Turkey) and Wickii Vigneswaran (Chicago, IL)

8:00-1:15 Pre-operative staging with CT/PET
Mylene Truong, Houston, TX

1:15-2:05 DEBATE

There is no role for radical surgery in the management of pleural mesothelioma
Tom Treasure, London, United Kingdom

Surgery for malignant pleural mesothelioma: A guaranteed complete response
Raja Flores, New York, NY

Moderator: Nicholas Vogelzang, Las Vegas, NV

1:25-2:05 SAFE IMPLEMENTATION OF INTENSITY MODULATED RADIATION THERAPY (IMRT) FOR MESOTHELIOMA

2:05-2:20 Safe implementation of intensity modulated radiation therapy (IMRT) for mesothelioma
Craig Stevens, Tampa, FL

2:20-2:35 Integrating chemotherapy into multi-modality treatment
Rolf Stahel, Zurich, Switzerland
**2:35-2:45 Abstract:** Multi-center phase II trial of neo-adjuvant pemetrexed plus cisplatin followed by extrapleural pneumonectomy and radiation for malignant pleural mesothelioma

Lee Krug, New York, NY

**2:45-2:55 Abstract:** Induction chemotherapy with cisplatin/gemcitabine compared to cisplatin/pemetrexed followed by extrapleural pneumonectomy for malignant pleural mesothelioma

Walter Weder, Zurich, Switzerland

**2:55-3:10 The scientific basis of integrated multimodality regimens**

Bruce Robinson, Perth, Australia

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**3:10-3:40 Break/Poster Viewing**

**3:40-5:55 Chemotherapy: Where Are We and Where Are We Going?**

Session Chairs: Jeremy Steele (London, United Kingdom) and Christian Manegold (Mannheim, Germany)

**3:40-4:00 New insights into the mechanisms of action of pemetrexed in mesothelioma**

I. David Goldman, Bronx, NY

**4:00-4:10 Abstract:** Pemetrexed but not vinorelbine and cisplatin cytotoxicity is enhanced by COX-2 inhibitors in mesothelioma cell lines

Michael Lind, Hull, United Kingdom

**4:10-4:20 Abstract:** Caffeine markedly sensitizes human mesothelioma cell lines to pemetrexed-induced cell death

Rongbao Zhao, Bronx, NY

**4:20-4:40 Combination chemotherapy: Moving beyond pemetrexed**

Jan van Meerbeeck, Ghent, Belgium

**4:40-4:50 Abstract:** Pemetrexed in combination with carboplatin in elderly patients with malignant pleural mesothelioma

Giovanni Luca Ceresoli, Milan, Italy

**4:50-5:00 Abstract:** Pemetrexed second-line treatment in malignant pleural mesothelioma following platinum-based first-line treatment

Jens Benn Sorensen, Copenhagen, Denmark

**5:00-5:10 Abstract:** Vinflunine in first-line treatment of malignant pleural mesothelioma: Final results of a European phase II study

Denis Talbot, Oxford, United Kingdom

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The current status of clinical trials in:

**5:10-5:25 North America**

Lee Krug, New York, NY

**5:25-5:40 Europe**

Paul Baas, Amsterdam, The Netherlands

**5:40-5:55 Australasia**

Nick Pavlakis, Sydney, Australia

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Posters

**Pemetrexed and carboplatin in advanced pleural mesothelioma: Evaluation of the activity and toxicity in a series of 178 chemo-naive patients**

Bruno Castagneto, Casale Monferrato, Italy

**An epigenetic mechanism for capecitabine resistance in mesothelioma**

Kavitha Kosuri, Columbus, OH
Sequential topoisomerase targeting triplet chemotherapy with irinotecan/cisplatin followed by doxorubicin in patients with malignant pleural mesothelioma: A pilot phase II study
Takashi Nakano, Hyogo, Japan

Treatment of malignant pleural mesothelioma with gemcitabine, carboplatin, and liposomized doxorubicin (Caelyx): The CCG study from the Nordic Mesothelioma Groups
Gunnar Hillerdal, Stockholm, Sweden

Treatment with gemcitabine and vinorelbine as second-line chemotherapy in pemetrexed-pretreated patients with malignant pleural mesothelioma
Giovanni Luca Ceresoli, Milan, Italy

Combination chemotherapy with methotrexate, irinotecan, and doxorubicin in malignant pleural mesothelioma
Kozo Kuribayashi, Hyogo, Japan

Pemetrexed in combination with carboplatin for the treatment of patients with malignant mesothelioma
Maximilian Papi, Rimini, Italy

7:00-9:30 Gala Reception at the International Museum of Surgical Science

6:15 Trolleys depart from the Sheraton Chicago Hotel & Towers
7:00-9:30 Reception
9:30 Trolleys return to the Sheraton Chicago Hotel & Towers
10:05-11:55 Novel Targets/Novel Agents II: Targets for the Next Generation of Clinical Trials

Session Chairs: Ravi Salgia (Chicago, IL) and Daniel Sterman (Philadelphia, PA)

10:05-10:25 IGF pathway activation in mesothelioma
Robert Kratzke, Minneapolis, MN

Cecelia Camacho-Hubner, London, United Kingdom

10:35-10:55 c-met/HGF activation
Ravi Salgia, Chicago, IL

Steven Albelda, Philadelphia, PA

11:15-11:25 Abstract: A randomized phase II trial of pegylated arginine deaminase (ADI-PEG 20) in patients with malignant pleural mesothelioma
Peter Szlosarek, London, United Kingdom

11:25-11:40 Abstract: 17-AAG, an inhibitor of HSP90, suppresses cellular growth of mesothelioma cell lines in vitro
Thomas Gauler, Essen, Germany

11:40-11:55 Nanoporous spheres for drug delivery in mesothelioma
Maria Ramos-Nino, Burlington, VT

Posters

Molecular targeting of malignant pleural mesothelioma by c-met and ROS modulation
Ramasamy Jagadeeswaran, Chicago, IL

Tyrosine kinase inhibitor ZD6474 (Zactima) and its effects on malignant mesothelioma cell lines
Betta Pier-Giacomo, Alessandria, Italy

Activation of 4E-BP1 represses IGF-1 mediated cap dependent translation in malignant pleural mesothelioma
Blake Jacobson, Minneapolis, MN

RNA interference against Hec1 targets malignant mesothelioma
Zeng Zhu, Birmingham, AL

MET in mesothelioma: Mutational screening, phosphorylation status, and sensitivity to the MET inhibitor PHA-665752
Shigeki Shimizu, New York, NY

Biocompatible, hydrophilic, supramolecular carbon nanoparticles for cell delivery
Bonnie Lau, Providence, RI

8:00-12:00 Pathology Workshop

Co-Chairs: Thomas Colby (Rochester, MN), Francoise Galateau-Salle (Caen, France) and Aliya Husain (Chicago, IL)

8:00-10:00 Session I: Current Status of Pathologic Diagnosis of Malignant Mesothelioma

8:00-8:20 Morphologic diagnostic criteria of mesothelioma
Philip Cagle, Houston, TX

8:20-8:40 Atypical mesothelial cell proliferations: Separating mesothelioma from reactive mesothelial hyperplasia
Thomas Colby, Rochester, MN

8:40-9:00 IHC evaluation
Allen Gown, Seattle, WA

9:00-9:20 Molecular studies in diffuse malignant mesothelioma of the pleura
Francoise Galateau-Salle, Caen, France

9:20-9:30 Abstract: MUC1 in malignant mesothelioma
Jenette Creaney, Perth, Australia

9:30-9:40 Abstract: Diagnostic value of proliferative markers Ki-67 and Repp 86 in distinction between malignant and benign mesothelial proliferations
Zohreh Mohammadzaheri, Teheran, Iran

9:40-9:50 Abstract: Prolonged survival in malignant mesothelioma: A study of 19 cases
Francoise Galateau-Salle, Caen, France

9:50-10:00 Abstract: Accuracy of pathological diagnosis of mesothelioma in Japan
Kouki Inai, Hiroshima, Japan

10:00-10:15 BREAK

10:15-12:00 Session II: The Use of Immunohistochemistry Panels in the Diagnosis of Mesothelioma: Guidelines and Recommendations

Posters

Differentiating between malignant mesothelioma and squamous cell carcinoma: An immunohistochemical study
Tiffany Chang, Chicago, IL

Diagnostic utility of GLUT-1 expression in the differential diagnosis between reactive mesothelium and malignant mesothelioma
Yasufumi Kato, Tokyo, Japan
Immunocytochemistry with ten commercially available antibodies in adenocarcinoma cells, malignant or reactive mesothelial cells in serous effusions
Toshiaki Kamei, Hofu, Japan

Prognostic value of fascin immunoreactivity in peritoneal mesothelioma
Alain Borczuk, New York, NY

Utility of CD138, estrogen receptor and progesterone receptor in the differential diagnosis of peritoneal mesothelioma and ovarian adenocarcinoma
Alain Borczuk, New York, NY

A case of malignant mesothelioma with rhabdomyosarcomatous differentiation
Astero Klabatsa, London, United Kingdom

Malignant mesothelioma with signet ring cell formation: A very rare presentation
Sumru Beder, Ankara, Turkey

Malignant tumor with bone formation in a man from Karain village: Mesothelioma or sarcoma?
Gunnar Hillerdal, Stockholm, Sweden

Pathological study of malignant pleural mesothelioma resected with extrapleural pneumonectomy
Kenzo Hiroshima, Chiba, Japan

12:00-12:05 Concluding Remarks
Hedy Lee Kindler and Samuel Armato
IMIG Conference Co-Chairs

12:05 Boxed Lunches

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Agenda at a Glance

- **Thursday**
- **Friday**
- **Saturday**
- **Sunday**
CME Information

Statement of Need
This international conference will be a highly interactive, trans-disciplinary meeting, the goals of which are to present scientific information of the highest caliber across disciplines, to foster international collaboration, to inspire new investigators, to generate new ideas, and to establish benchmark standards in this disease. The format will consist of invited lectures, oral abstract presentations, poster presentations, and poster discussion sessions. To foster collaboration and interaction, an important feature of this meeting will be interactive workshops and debates on key issues.

Learning Objectives
After this conference, participants will:

- Understand the best screening methods for mesothelioma—biomarkers, CT scans, thoracoscopy—in patients exposed to asbestos;
- Understand the interaction between genetics and mineral exposure in the development of mesothelioma;
- Understand the mechanisms of the pathogenesis of mesothelioma;
- Describe the epidemiology of asbestos exposure and mesothelioma in countries around the world;
- Understand the genetic alterations caused by asbestos;
- Understand and optimize the clinical management of patients with peritoneal mesothelioma;
- Understand the different multimodality approaches for the management of pleural mesothelioma;
- Understand the activity of various chemotherapeutic agents in patients with mesothelioma;
- Understand the optimal therapeutic targets for the next generation of clinical trials for mesothelioma;
- Understand the clinical relevance of mouse models for mesothelioma;
- Understand key questions that need to be answered in order to develop the next generation of chemotherapy clinical trials for mesothelioma;
- Understand the immunology of mesothelioma and immunotherapeutic approaches for treatment;
- Understand the current controversies involved in imaging mesothelioma;
- Understand the key issues in supportive care for mesothelioma patients;
- Understand apoptosis in mesothelioma;
- Understand the optimal treatment, staging, and clinical trial design for peritoneal mesothelioma;
- Learn technical skills about the surgical management of mesothelioma;
- Understand the current status of the pathologic diagnosis of mesothelioma and make recommendations on the use of immunohistochemistry panels.

Target Audience
Medical oncologists, surgeons, radiation oncologists, pulmonologists, epidemiologists, radiologists and basic scientists who research mesothelioma or treat patients with this disease.

Accreditation
The University of Chicago Pritzker School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide Continuing Medical Education for physicians.

Credit Designation
The University of Chicago Pritzker School of Medicine designates this educational activity for a maximum of 24.50 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

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