NAME OF SPECIALTY SECTION: **Inhalation and Respiratory Specialty Section**

ANNUAL REPORT: 2009-2010

May 1, 2009 to April 30, 2010

I. Officers/Committees:

Officers:	2008-2009	2009-2010
President:	Lung-Chi Chen	JeanClare Seagrave
President-elect:	JeanClare Seagrave	Vincent Castranova
Vice President:	Vincent Castranova	James Wagner
Secretary:	Alison Elder	Dale Porter
Treasurer:	Alison Elder	Dale Porter
Councilors:	Matthew Campen	James M. Antonini
	Jeffrey Tepper	Amy Madl
	James M. Antonini	Annette C. Rohr
	Annette C. Rohr	Laura Van Winkle
Past-President	Deepak Bhalla	Lung-Chi Chen
SAC Representative:	Leah A. Mitchell	Glenn Gookin
PDA Representative:	Chunli Quan	Chunli Quan

Committees: Jan Moser presented the report from the technical committee. The committee met on March 9 and received two reports from George Woodall. The first report was on "Graphical Arrays of Chemical-Specific Health Effect Reference Values for Inhalation Exposures" and the second report was on "Acute Reference Concentration (ARfC): Preliminary Draft Method Document and Draft Acute Assessments". The reports were well received by the committee, and it was agreed that the proposed graphical arrays will provide easier interpretation and comparisons of exposure data. There was a suggestion by Jim Wagner to revisit and potentially update the 2000 report on intratracheal instillation methods (Driscoll et al., Tox Sci 55(1):24-35, 2000). He further suggested that a critical comparison of pulmonary functional testing approaches in toxicology studies be considered. Mike Kleinman suggested these might be good topics for a workshop.

II. Activities

2010 SOT Annual Meeting Reception was held Salt Lake City, Utah on March 9, 2010. Approximately 150 people were in attendance. Dr. Seagrave called the meeting to order at 6:45 PM on March 9, 2010

Business Meeting Speaker: none.

Meeting Minutes: see Attachment I

Awards: Jim Wagner presented the awards. They were as follows: (1) Graduate student, Angie Groves (Rutgers), (2) Mary Amdur, Eric Liberda (NYU), Post-doctoral, Dr. Mehdi Hazari (EPA), (3) New Investigator, Dr. Qinghua Sun (Ohio State) and (4) Paper of the

year, "Ambient Air Pollution Exaggerates Adipose Inflammation and Insulin Resistance in a Mouse Model of Diet Induced Obesity". This paper appeared in the journal Circulation 119(4):538-546, 2009, and included several coauthors from SOT; Qinghua Sun (1st author), Lung Chi-Chen, and Sanjay Rajagopalan.

2010 SOT Annual Meeting Courses/Sessions: Continuing Education courses included: (1) Comparative Biology of the Lung – sponsor, (2) Predictive Power of Novel Technologies (Cells to Omics) –endorsed, (3) Gene-Environment Interactions Influence Cytokine Biology in Immunotoxicity and Disease – endorsed. Symposia included (1) Neurological Responses after Exposure to Inhaled Metal Particles – sponsor, (2) Silica and Asbestos Immunotoxicity–endorsed, and (3) TRPing the Sensor: The Role of TRP Channel Signaling in Cardiopulmonary Toxicity – sponsor. Roundtable titled "Inhaled Particles: From Nose to the Brain" was sponsored as well as Informational Session "Recent Advances in Pulmonary Surfactant Toxicological Assessment and Therapeutics" were sponsored.

Endowment Fund Details: Mary Amdur fund balance as of June 30, 2010=$35,545. See attachment #2 for details.

Newsletters: A newsletter was distributed in Dec 2009.

Teleseminars: None.

White Papers: None. However, Dr. Richard Parent indicated that a new edition of the Comparative Biology of the Normal Lung (treatise on pulmonary toxicology, 1995) is in the works, and solicited data and contributions to the draft.

Contributions to SOT Web site: Dr. Mehdi Hazari has agreed to serve as the Web Site Liaison and ToXchange representative for the Inhalation and Respiratory Specialty Section.

Other Specialty Section 2009-2010 Activities: Other specialty section activities are detailed in Attachment 1.

Attachment 1

Minutes of Inhalation and Respiratory Specialty Section Annual Meeting
XX March 2010

JeanClare Seagrave called the meeting to order at 6:45.

Vincent Castranova provided the secretary and treasurer's report. A motion to approve the minutes from the last meeting (published in the newsletter) was made by and seconded. The motion carried by voice vote.

Vincent Castranova stated that the IRSS balance as of Dec 31, 2009 was $5758. This does not include income from membership dues and SOT Meeting attendance nor costs incurred during the Meeting. An updated balance should be available in June.

Jan Moser presented the report from the technical committee: the committee met on March 9 and received two reports from George Woodall: first on "Graphical Arrays of Chemical-Specific Health Effect Reference Values for Inhalation Exposures" and second on "Acute Reference Concentration (ARfC): Preliminary Draft Method Document and Draft Acute Assessments". The reports were well received by the committee, and it was agreed that the proposed graphical arrays will provide easier interpretation and comparisons of exposure data. There was a suggestion by Jim Wagner to revisit and potentially update the 2000 report on intratracheal instillation methods (Driscoll et al., Tox Sci 55(1):24-35, 2000). He further suggested that a critical comparison of pulmonary functional testing approaches in toxicology studies be considered. Mike Kleinman suggested these might be good topics for a workshop.

Seagrave provided information on the current status of the Amdur fund: prior to distributions of this year's awards and without the addition of contributions made since Dec 31, the fund has $41,697. It was suggested we attempt to raise that to $50,000 in order to fund four awards of $500. Rudy Jaeger has a number of baseball hats signed by Joe Bourselica and John Doull; he will give to anyone making a donation of $500 to the fund.

Updates from headquarters: a new "Specialty Section Governance" group has been formed. Currently consists of 5 VPs of specialty sections, 5 more will be added next year, with each serving 2 year terms to maintain a group of 10.

ToXchange is active and will serve as a communication network. All active SOT members are listed in Toxchange, and can update their profile with CVs and photographs if desired.

Global issues are increasingly being considered. SOT has funds to support other meetings.

Vince Castranova gave an overview of the sessions sponsored and endorsed for 2010 meeting:

Continuing Education

1. Comparative Biology of the Lung - sponsor

2. Predictive Power of Novel Technologies (Cells to Omics) - endorsed

3. Gene-Environment Interactions Influence Cytokine Biology in Immunotoxicity and Disease - endorsed

Symposia

1. Neurological Responses after Exposure to Inhaled Metal Particles - sponsor

2. Silica and Asbestos Immunotoxicity - endorsed

3. TRPing the Sensor: The Role of TRP Channel Signaling in Cardiopulmonary Toxicity - sponsor

Roundtable

1. Inhaled Particles: From Nose to the Brain - sponsor

Informational Session

2. Recent Advances in Pulmonary Surfactant Toxicological Assessment and Therapeutics - sponsor

Vincent Castranova also encouraged people to start thinking about submissions for 2011 (the 50th anniversary of SOT). Debra Laskin reported that the course sponsored by IRSS this year was extremely well attended.

Jim Wagner presented the awards:

Grad student: Angie Groves, Rutgers

Mary Amdur: Eric Liberda, NYU

Postdoc: Dr. Mehdi Hazari, EPA

New Investigator: Dr. Qinghua Sun, Ohio State

Paper of the year: "Ambient Air Pollution Exaggerates Adipose Inflammation and Insulin Resistance in a Mouse Model of Diet Induced Obesity", which appeared in Circulation 119(4):538-546, 2009; Several coauthors, including from SOT : Qinghua Sun (1st author), Lung Chi-Chen, and Sanjay Rajagopalan.

Vincent Castranova presented the Career Achievement award to Dr. Kent Pinkerton of UC-Davis

Lung Che Chen announced the new officers: Mike Kleinman (UC-Irvine) is the new Vice President-elect. Jacob McDonald (Lovelace, Albuquerque) and Flemming Cassee (RIVM, Netherlands) are the new councilors. Danielle Carlin is the new Postdoc rep, and Christian Hickey as the new Graduate student rep.

New business: a poll was taken regarding moving the meeting to a lunch meeting, and the majority was in favor of this. This move was considered for its cost saving.

A suggestion was made that the 50th anniversary festivities may have a potential for fund raising to add to the Mary Amdur award, perhaps through a silent auction. Creative thinking was encouraged.

Vincent Castranova presented certificates and thanked the outgoing officers: Glenn Gookin (Grad student rep), Chunli Quan (Postdoctoral Rep), Annette Rohr and Jim Antonini (Councilors), and JeanClare Seagrave (president)

Dr. Richard Parent indicated that a new edition of the Comparative Biology of the Normal Lung (treatise on pulmonary toxicology, 1995) is in the works, and solicited data and contributions to the draft.

Meeting was adjourned at 7:45 pm