

This event has been accredited by the McGill Center for Continuing Health Professional Education.

June 26-30, 2010

Louisville KENTUCKY Marriott Louisville Downtown

23rd International Conference of the Organization of Teratology Information Specialists (OTIS)

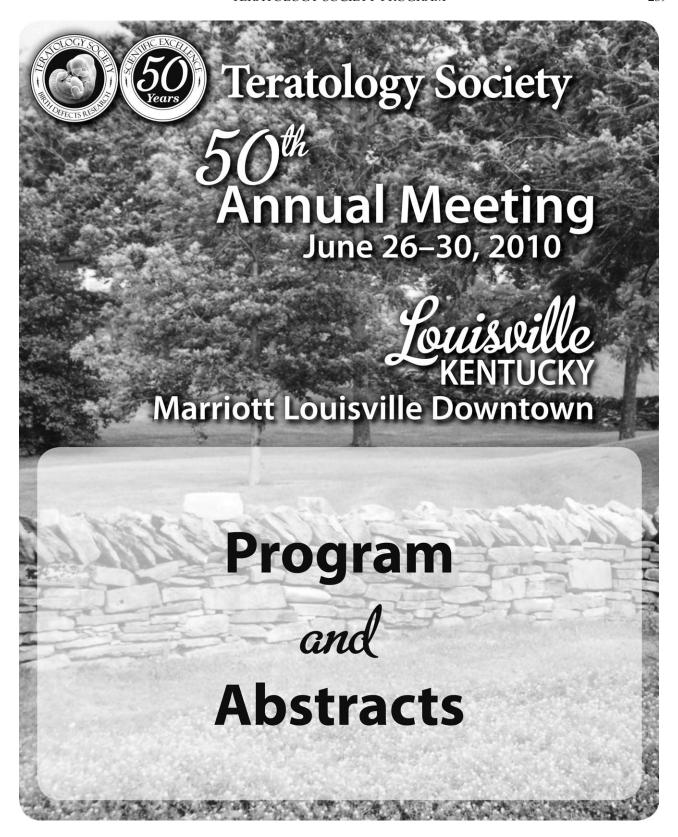
June 26-29, 2010

and the

34th Annual Meeting of the Neurobehavioral Teratology Society (NBTS)

June 26-30, 2010

All text and graphics are © 2010 by the Teratology Society unless noted. Some Louisville photographs are courtesy of the Greater Louisville Convention & Visitors Bureau and www.kentuckytourism.com.



FRIDAY, JUNE 25, 2010

3:00 PM-6:00 PM

Council IA Meeting

4:00 PM-6:00 PM

Registration

SATURDAY, JUNE 26, 2010

7:00 AM-6:00 PM

Registration

7:30 AM-8:00 AM

Education Course: Coffee and Continental Breakfast

8:00 AM-11:30 AM

Education Course

Session I: Prenatal Drug Disposition and Teratogenesis

12:00 NOON-1:00 PM

F. Clarke Fraser and Distinguished Service Awards Committee Meeting

12:30 PM-5:30 PM

TS/OTIS Joint Pregnancy Registry Workshop

1:30 PM-4:45 PM

Education Course

Session II: Postnatal Drug Disposition and Teratogenesis

6:00 PM-8:00 PM

Student/Postdoctoral Fellow Mixer

6:30 PM-9:30 PM

Council IB Meeting and Committee Reports

SUNDAY, JUNE 27, 2010

8:00 AM-7:00 PM

Registration

8:00 AM-8:15 AM

President's Welcome

8:15 AM-9:15 AM

Josef Warkany Lecture

50 Years of Progress in Understanding the Causes of Three Common Birth Defects

9:15 AM-11:45 AM

Student/Postdoctoral Fellow Platform Session I Wilson Presentation Award Competition

11:45 AM-12:00 NOON

Box Lunch Pick-Up

12:00 NOON-1:00 PM

TS/OTIS Joint Robert L. Brent Lecture Ionizing Radiation Exposure to the Fetus and Infant from Medical Imaging: A Radiologist's Perspective

1:00 PM-1:30 PM

F. Clarke Fraser Award

Gastroschisis: A Journey to Discover the Pieces of the Puzzle

1:30 PM-2:00 PM

James G. Wilson Publication Award Regulations of Folate Receptor 1 Gene Expression in the Visceral Endodem

Program Overview

2:00 PM-3:00 PM

TS/ETS Joint Exchange Lecture Pros and Cons of the Extended One-Generation Study Protocol

3:15 PM-5:45 PM

Vitamin B_{12} and Neural Tube Defects: Is It Time to Fortify Food with B_{12} Symposium

6:00 PM-8:00 PM

TS/NBTS Joint Welcome Reception and Exhibits Open

MONDAY, JUNE 28, 2010

7:00 AM-8:00 AM

BDRB Editorial Board Meeting

7:30 AM-6:00 PM

Registration

8:00 AM-7:00 PM Exhibit Hall Open

8:00 AM-9:00 AM

TS/OTIS Joint State of the Art Lecture Palate Development: Molecular Perspectives and Current Understanding

9:15 AM-11:45 AM

TS/NBTS/OTIS Joint Symposium Reproductive Psychiatry

9:15 AM-11:45 AM

Platform Session II

Mechanisms and Models

11:45 AM-1:15 PM

Past Presidents' Luncheon

11:45 AM-12:45 PM

Web Site Committee Meeting

1:15 PM-2:15 PM

TS/OTIS Joint Special Lecture Human Teratogens: Update 2010

2:15 PM-5:00 PM

Update on Thalidomide Symposium

5:00 PM-7:00 PM

TS/NBTS/OTIS Joint Poster Session and Exhibits Open

7:30 PM-9:30 PM

MARTA Student and Postdoctoral Fellow Career Event

TUESDAY, JUNE 29, 2010

7:00 AM-5:00 PM

Registration

7:00 AM-8:20 AM

Sunrise Mini Course

Imaging Tools for Structural and Functional Teratogenesis Analyses

8:00 AM-2:00 PM

Exhibit Hall Open

8:30 AM-9:15 AM

TS/NBTS/OTIS Joint Special Lecture Children's Environmental Health: A Good Start Lasts a Lifetime 9:30 AM-12:00 NOON

March of Dimes/Public Affairs Committee Symposium

Herbal Supplement Usage during Pregnancy

9:30 AM-12:00 NOON

TS/NBTS Joint Symposium

Advancing Neurodevelopmental Evaluation in Children: An Interdisciplinary Approach

12:00 NOON-2:00 PM

TS/NBTS Joint Poster Session and Exhibits Open

2:00 PM-4:30 PM

Platform Session III

Hazard Assessment and Screening

2:00 PM-4:15 PM

TS/OTIS Joint Platform Session IV Common Conditions in Pregnancy: Treatment of

Mental Health and Asthma

4:45 PM-6:30 PM 50th Anniversary Meeting Celebration

WEDNESDAY, JUNE 30, 2010

6:30 AM-7:30 AM

Teratology Society XXIX Annual Volleyball Game

7:00 AM-8:00 AM

Public Affairs Committee Meeting

7:00 AM-8:00 AM

Student Affairs Committee Meeting

8:00 AM-2:00 PM

Registration

8:00 AM-10:30 AM

Platform Session V

Epidemiology and Clinical Studies

8:00 AM-10:30 AM

Wiley-Blackwell Symposium

Teratology Society: 50 Years Then to Now

10:30 AM-11:00 AM

Warkany Tea

11:00 AM-12:00 NOON

TS/NBTS Joint Update on the National Children's Study/Panel

12:30 PM-1:30 PM

Education Committee Meeting

12:30 PM-1:30 PM

Membership Committee

1:30 PM-4:30 PM

ILSI HESI Symposium 21st Century Developmental Toxicology

21 Century Deve

4:30 PM–6:00 PMBusiness Meeting and Reports from *BDR* Editors

6:30 PM-7:30 PM

Banquet Reception

7:30 PM-10:00 PM

Banquet

THURSDAY, JULY 1, 2010

7:00 AM-10:00 AM

Council II Meeting

Teratology Society

OFFICERS (2009-2010)

BARBARA F. HALES President

JOHN M. ROGERS Vice President

JOHN M. GRAHAM Vice President-Elect CHRISTINA D. CHAMBERS Past President

> MARY ALICE SMITH Secretary

IDA M. WASHINGTON Treasurer DANA L. SHUEY Councilor (2007–2010)

JANE ADAMS Councilor (2008–2011)

SONJA A. RASMUSSEN Councilor (2009–2012)

PAST PRESIDENTS OF THE SOCIETY

J. WARKANY 1960–1961 J.G. WILSON 1961–1962

F.C. FRASER 1962–1963

M.M. NELSON 1963–1964

D.A. KARNOFSKY 1964–1965

I.W. MONIE 1965–1966 S.Q. COHLAN

1965–1966 M.N. RUNNER 1966–1967

> R.L. BRENT 1967–1968

T.H. SHEPARD 1968–1969

R.W. MILLER 1969–1970 J. LANGMAN

1970–1971 A. PRUZANSKY 1971–1972

D.G. TRASLER 1972–1973

J.R. MILLER 1973–1974

E.M. JOHNSON 1974–1975 L.S. HURLEY

1975–1976

J.L. SEVER 1976–1977

E.V. PERRIN 1977–1978

A.R. BEAUDOIN 1978–1979 R.M. HOAR

1979–1980 C.R. SWINYARD

1980–1981 W.J. SCOTT, JR. 1981–1982

D.M. KOCHHAR 1982–1983

R.E. STAPLES 1983–1984 G.P. OAKLEY, JR.

1984–1985 L.B. HOLMES 1985–1986

A.G. HENDRICKX 1986–1987

C.T. GRABOWSKI 1987–1988 M.S. CHRISTIAN

1988–1989 E.F. ZIMMERMAN 1989–1990

C.A. KIMMEL 1990–1991 R.K. MILLER

1991–1992 M. BARR, JR. 1992–1993 J.W. HANSON 1993–1994

J.M. DESESSO 1994–1995

K.K. SULIK 1995–1996

J.F. CORDERO 1996–1997

P.E. MIRKES 1997–1998

A.R. SCIALLI 1998–1999 G.P. DASTON

1999-2000 R.J. KAVLOCK 2000-2001

J.M. FRIEDMAN 2001–2002

W. SLIKKER, JR. 2002–2003 R.W. TYL 2003–2004 K.L. JONES

2004–2005 M.S. TASSINARI 2005–2006

E.M. FAUSTMAN 2006–2007

T.B. KNUDSEN 2007–2008

C.D. CHAMBERS 2008–2009

HEADQUARTERS STAFF

TONIA M. MASSON Executive Director BECCA ISAKOWER Program Manager

HEIDI PRANGE Director of Meetings LIZ KASABIAN Exhibits Manager CHRISTY OURS Administrative Assistant

Teratology Society

1821 Michael Faraday Drive, Suite 300 • Reston, VA 20190

Tel: (703) 438-3104 • Fax: (703) 438-3113 • E-mail: tshq@teratology.org

| 50™ ANNIVERSARY PLANNING COM | MITTEE (Ad Hoc) | CONSTITUTION AND BY-LAWS | COMMITTEE |
|---|--|--|---|
| John M. Rogers, Ph.D. Tel: (919) 541-5177 E-mail: rogers.john@epa.gov | Chair Fax: (919) 541-4017 | Sandra L. Wood, Ph.D. Tel: (215) 652-6334 E-mail: sandra_wood2@merck.com | Chair Fax: (215) 652-7758 |
| Elaine M. Faustman, Ph.D. Tel: (206) 685-2269 E-mail: faustman@u.washington.edu | Co-Chair Fax: (206) 685-4696 | Amar V. Singh Tel: (919) 541-9772 E-mail: singhamarv@gmail.com | 2012 |
| Edward W. Carney, Ph.D. Tel: (989) 636-2580 E-mail: ewcarney@dow.com | 2010 Fax: (989) 638-9863 | Donald G. Stump, Ph.D., DABT Tel: (419) 289-8700 E-mail: dstump@wilresearch.com | 2011 Fax: (419) 289-3650 |
| Benjamin R. Fisher, Ph.D. Tel: (703) 245-2200 E-mail: ben.fisher@covance.com | 2010 Fax: (703) 759-6947 | Gloria D. Jahnke, D.V.M. Tel: (919) 541-3376 E-mail: Jahnke@niehs.nih.gov | Past Chair |
| Ihomas B. Knudsen, Ph.D. Tel: (919) 541-9776 E-mail: knudsen.thomas@epa.gov | 2010 Fax: (919) 541-1194 | Barbara F. Hales, Ph.D. Tel: (514) 398-3610 E-mail: barbara.hales@mcgill.ca | President Fax: (514) 398-7120 |
| Lynnda L. Reid, Ph.D. Tel: (301) 796-0976 | 2010 Fax: (301) 796-9897 | COUNCIL | |
| E-mail: lynnda.reid@fda.hhs.gov Barbara F. Hales, Ph.D. Tel: (514) 398-3610 | President Fax: (514) 398-7120 | Barbara F. Hales, Ph.D. Tel: (514) 398-3610 E-mail: barbara.hales@mcgill.ca | President Fax: (514) 398-7120 |
| E-mail: barbara.hales@mcgill.ca F. CLARKE FRASER AND SERVICE AWA | ARDS | John M. Rogers, Ph.D. Tel: (919) 541-5177 E-mail: rogers.john@epa.gov | Vice President Fax: (919) 541-4017 |
| COMMITTEE (Ad Hoc) Terence R. S. Ozolins, Ph.D. Tel: (613) 533-3306 | Chair Fax: (613) 533-6412 | John M. Graham, Jr., M.D., Sc.D. Tel: (310) 423-9909 E-mail: john.graham@cshs.org | Vice President-elect Fax: (310) 423-9752 |
| E-mail: ozolinst@queensu.ca (an M. Friedman, M.D., Ph.D. Tel: (604) 875-2000 (5623) | 2010 Fax: (604) 875-2376 | Christina D. Chambers, Ph.D., M.P.H. Tel: (619) 294-3791 E-mail: chchambers@ucsd.edu | Past President Fax: (619) 220-0228 |
| E-mail: frid@interchange.ubc.ca Alan M. Hoberman, Ph.D., DABT Tel: (215) 443-8710 (3705) E-mail: alan.hoberman@crl.com | 2010 Fax: (215) 443-8587 | Mary Alice Smith, Ph.D. Tel: (706) 542-1599 E-mail: masmith@uga.edu | 2012 Secretary Fax: (706) 542-7472 |
| Kenneth Lyons Jones, M.D. Tel: (619) 294-6460 | 2010 Fax: (619) 220-0228 | Ida M. Washington, D.V.M., Ph.D. Tel: (206) 543-0474 E-mail: idaw@u.washington.edu | 2010 Treasurer Fax: (206) 685-3006 |
| E-mail: klyons@ucsd.edu Louise M. Winn, Ph.D. Tel: (613) 533-6465 | 2011 Fax: (613) 533-6412 | Jane Adams, Ph.D. Tel: (617) 287-6346 E-mail: jane.adams@umb.edu | 2011 Councilor Fax: (617) 287-6336 |
| E-mail: winnl@post.queensu.ca Sonja A. Rasmussen, M.D., M.S. Tel: (404) 498-3908 | Past Chair Fax: (404) 498-3040 | Sonja A. Rasmussen, M.D., M.S. Tel: (404) 498-3908 E-mail: skr9@cdc.gov | 2012 Councilor Fax: (404) 498-3040 |
| E-mail: skr9@cdc.gov Mary Alice Smith, Ph.D. Tel: (706) 542-1599 | Council Liaison Fax: (706) 542-7472 | Dana L. Shuey, Ph.D., DABT Tel: (610) 558-9800 E-mail: shuey.dana@endo.com | 2010 Councilor Fax: (610) 387-4094 |
| E-mail: masmith@uga.edu Barbara F. Hales, Ph.D. Tel: (514) 398-3610 | President Fax: (514) 398-7120 | Patricia M. Bittner, M.S. Tel: (301) 504-7263 E-mail: pbittner@cpsc.gov | Public Affairs Committee Chair Fax: (301) 504-0137 |
| E-mail: barbara.hales@mcgill.ca | | Michael A. Schellpfeffer, M.D., M.S. Tel: (262) 658-2133 E-mail: maschellpfeffer@gmail.com | Publications Committee Chair Fax: (262) 658-2699 |
| | | Tonia M. Masson Tel: (703) 438-3104 E-mail: tmasson@teratology.org | Executive Director Fax: (703) 438-3113 |

COMMITTEES (continued)

| EDUCATION COMMITTEE | | FASEB REPRESENTATION | |
|---|--|---|---|
| Louise M. Winn, Ph.D. Tel: (613) 533-6465 E-mail: winnl@post.queensu.ca | Chair Fax: (613) 533-6412 | Anthony R. Scialli, M.D. Tel: (571) 527-1709 E-mail: tony.scialli@tetratech.com | FASEB Board Representative Fax: (703) 684-2223 |
| Ludmila Bakhireva, M.D., Ph.D., M.P.H. Tel: (505) 272-2545 E-mail: lbakhireva@salud.unm.edu | Secretary Fax: (505) 272-6749 | Belen Tornesi, D.V.M., M.S. Tel: (847) 937-8934 E-mail: m.tornesi@abbott.com | FASEB PCC Representative Fax: (847) 938-3076 |
| Melissa J. Beck, Ph.D. Tel: (419) 289-8700 E-mail: mbeck@wilresearch.com | 2011 Fax: (419) 289-3650 | Claudia Kappen, Ph.D. Tel: (225) 763-2781 E-mail: claudia.kappen@pbrc.edu | FASEB SPC Representative Fax: (225) 763-0260 |
| Christine Perdan Curran, Ph.D. Tel: (859) 572-6914 E-mail: curranc1@nku.edu | 2012 Fax: (513) 232-4905 | Michael F. O'Hara, Ph.D. Tel: (862) 778-7483 E-mail: michael.ohara@novartis.com | FASEB SRC Representative Fax: (973) 781-6339 |
| Jan M. Friedman, M.D., Ph.D. Tel: (604) 875-2000 (5623) E-mail: frid@interchange.ubc.ca | 2010 Fax: (604) 875-2376 | FINANCE COMMITTEE | Cl. : |
| Marilyn H. Silva, Ph.D., DABT Tel: (916) 324-3482 E-mail: msilva@cdpr.ca.gov | 2012 Fax: (916) 324-3506 | Ida M. Washington, D.V.M., Ph.D. Tel: (206) 543-0474 E-mail: idaw@u.washington.edu | Chair Fax: (206) 685-3006 |
| Tacey E.K. White, Ph.D. Tel: (610) 270-6168 | Past Chair Fax: (610) 270-7622 | John M. Rogers, Ph.D. Tel: (919) 541-5177 E-mail: rogers.john@epa.gov | Past Treasurer Fax: (919) 541-4017 |
| E-mail: tacey.e.white@gsk.com John M. Rogers, Ph.D. Tel: (919) 541-5177 | Vice President Fax: (919) 541-4017 | Barbara F. Hales, Ph.D. Tel: (514) 398-3610 E-mail: barbara.hales@mcgill.ca | President Fax: (514) 398-7120 |
| E-mail: rogers.john@epa.gov Michelle Lynn Carll, B.S. Tel: (856) 981-3124 | <i>Ad Hoc</i> Fax: (215) 923-2117 | Tonia M. Masson Tel: (703) 438-3104 E-mail: tmasson@teratology.org | Executive Director Fax: (703) 438-3113 |
| E-mail: mcarll@mac.com Robert G. Ellis-Hutchings, Ph.D. Tel: (989) 636-1928 | <i>Ad Hoc</i> Fax: (989) 638-9305 | Jack B. Bishop, Ph.D. Tel: (919) 541-1876 E-mail: bishop@niehs.nih.gov | <i>Ad Hoc</i> Fax: (919) 316-4511 |
| E-mail: rellis-hutchings@dow.com Keith J. Robinson, B.Sc., DABT Tel: (514) 630-8200 | <i>Ad Hoc</i> Fax: (514) 630-8230 | George P. Daston, Ph.D. Tel: (513) 627-2886 E-mail: daston.gp@pg.com | <i>Ad Hoc</i> Fax: (513) 627-0323 |
| E-mail: keith.robinson@crl.com EMBRYOLOGY COURSE COMMITTEE (A | Ad Hoc) | John M. Graham, Jr., M.D., Sc.D. Tel: (310) 423-9909 E-mail: john.graham@cshs.org | <i>Ad Hoc</i> Fax: (310) 423-9752 |
| Kok-Wah Hew, Ph.D., DABT Tel: (847) 582-3682 | Chair Fax: (224) 554-7933 | MEMBERSHIP COMMITTEE | |
| E-mail: khew@tgrd.com Christopher Lau, Ph.D. Tel: (919) 541-5097 | 2010 Fax: (919) 541-4017 | Barbara D. Abbott, Ph.D. Tel: (919) 541-2753 E-mail: abbott.barbara@epa.gov | Chair Fax: (919) 541-4017 |
| E-mail: lau.christopher@epa.gov Mary S. Marty, Ph.D. Tel: (989) 636-6653 | 2010 Fax: (989) 638-9863 | Peter Beyrouty Tel: (714) 246-6049 E-mail: beyrouty_peter@allergan.com | 2012 Fax: (714) 246-5158 |
| E-mail: msmarty@dow.com Dana L. Shuey, Ph.D., DABT Tel: (610) 558-9800 | Council Liaison Fax: (610) 387-4094 | Harpal S. Buttar, D.V.M., Ph.D. Tel: (613) 941-2118 E-mail: harpal_buttar@hc-sc.gc.ca | 2011 Fax: (613) 941-1365 |
| E-mail: shuey.dana@endo.com Barbara F. Hales, Ph.D. Tel: (514) 398-3610 | President Fax: (514) 398-7120 | Thomas F.X. Collins, Ph.D. Tel: (301) 951-8617 E-mail: elncllns@aol.com | 2010 Fax: (301) 951-8617 |
| E-mail: barbara.hales@mcgill.ca | | Debra L. Kirchner, Ph.D., DABT Tel: (608) 242-2638 E-mail: debra.kirchner@covance.com | 2011 Fax: (608) 242-7971 |
| | | | |

| COMMITTEES (continued) | | | |
|---|--|---|---|
| Seyed Adel Moallem, Ph.D. Tel: 98 9155090106 E-mail: moallem@mums.ac.ir | 2012 Fax: 98 5118823251 | Eberhard Buse, Ph.D. Tel: 49 25197980 E-mail: eberhard.buse@covance.com | Fax: 49 251784697 |
| Robert M. Parker, Ph.D., DABT Tel: (732) 873-2550 (2389) E-mail: parkerr@princeton.huntingdon.cor | Past Chair Fax: (732) 873-3992 | Edward W. Carney, Ph.D. Tel: (989) 636-2580 E-mail: ewcarney@dow.com | Fax: (989) 638-9863 |
| Mary Alice Smith, Ph.D. Tel: (706) 542-1599 E-mail: masmith@uga.edu | Secretary Fax: (706) 542-7472 | Elaine M. Faustman, Ph.D. Tel: (206) 685-2269 E-mail: faustman@u.washington.edu | Fax: (206) 685-4696 |
| Robert G. Ellis-Hutchings, Ph.D. Tel: (989) 636-1928 E-mail: rellis-hutchings@dow.com | Ad Hoc Fax: (989) 638-9305 | John M. Graham, Jr., M.D., Sc.D. Tel: (310) 423-9909 E-mail: john.graham@cshs.org | Fax: (310) 423-9752 |
| Joshua F. Robinson, Ph.D. Tel: 31 302749111 E-mail: robinsonjf@gmail.com | <i>Ad Hoc</i> , Student Fax: 31 302744446 | Kok-Wah Hew, Ph.D., DABT Tel: (847) 582-3682 E-mail: khew@tgrd.com | Fax: (224) 554-7933 |
| NEWSLETTER Kimberly Brannen, Ph.D. | Editor | Lewis B. Holmes, M.D. Tel: (617) 726-1742 E-mail: holmes.lewis@mgh.harvard.o | Fax: (617) 724-1911 edu |
| Tel: (267) 532-3870 E-mail: brannen@med.unc.edu | Fax: (215) 443-8587 | Debra L. Kirchner, Ph.D., DABT Tel: (608) 242-2638 E-mail: debra.kirchner@covance.con | Fax: (608) 242-7971 |
| NOMINATIONS AND ELECTIONS CO Thomas B. Knudsen, Ph.D. Tel: (919) 541-9776 | MMITTEE Chair Fax: (919) 541-1194 | Thomas B. Knudsen, Ph.D. Tel: (919) 541-9776 E-mail: knudsen.thomas@epa.gov | Fax: (919) 541-1194 |
| E-mail: knudsen.thomas@epa.gov Jan M. Friedman, M.D., Ph.D. Tel: (604) 875-2000 (5623) | 2010 Fax: (604) 875-2376 | James L. Mills, M.D. Tel: (301) 496-5394 E-mail: jamesmills@nih.gov | Fax: (301) 402-2084 |
| E-mail: frid@interchange.ubc.ca Deborah K. Hansen, Ph.D. Tel: (870) 543-7480 | 2010 | Sonja A. Rasmussen, M.D., M.S. Tel: (404) 498-3908 E-mail: skr9@cdc.gov | Fax: (404) 498-3040 |
| E-mail: deborah.hansen@fda.hhs.gov Alan M. Hoberman, Ph.D., DABT Tel: (215) 443-8710 (3705) | 2010 Fax: (215) 443-8587 | Meredith S. Rocca, Ph.D., DABT Tel: (650) 877-7625 E-mail: meredith.rocca@elan.com | Student Affairs Committee |
| E-mail: alan.hoberman@crl.com Martha M. Werler, Sc.D. Tel: (617) 734-6006 | 2010 Fax: (617) 738-5119 | Michael A. Schellpfeffer, M.D., M.S. Tel: (262) 658-2133 E-mail: maschellpfeffer@gmail.com | Publications Committee Chair Fax: (262) 658-2699 |
| E-mail: werler@bu.edu Richard K. Miller, Ph.D. Tel: (585) 275-2520 | Past Chair Fax: (585) 244-2209 | Donald G. Stump, Ph.D., DABT Tel: (419) 289-8700 E-mail: dstump@wilresearch.com | Fax: (419) 289-3650 |
| E-mail: richardk_miller@urmc.rochester.ec | lu | Melissa Sherman Tassinari, Ph.D., DABT Tel: (301) 796-2061 E-mail: melissa.tassinari@fda.hhs.go | |
| John M. Rogers, Ph.D. Tel: (919) 541-5177 E-mail: rogers.john@epa.gov | Chair Fax: (919) 541-4017 | Janet Uriu-Adams, Ph.D. Tel: (530) 752-4658 E-mail: jyuriuadams@ucdavis.edu | Fax: (530) 752-8966 |
| Marianne Barrier, Ph.D. Tel: (919) 541-7712 E-mail: barrier.marianne@epa.gov | Postdoctoral Member Fax: (919) 541-4017 | Louise M. Winn, Ph.D. Tel: (613) 533-6465 E-mail: winnl@post.queensu.ca | Education Committee Chair Fax: (613) 533-6412 |
| Jack B. Bishop, Ph.D. Tel: (919) 541-1876 E-mail: bishop@niehs.nih.gov | Fax: (919) 316-4511 | Katherine L. Wisner, M.D., M.S. Tel: (412) 246-6564 E-mail: wisnerkl@upmc.edu | Fax: (412) 246-6960 |
| | Affairs Committee Chair Fax: (301) 504-0137 | Barbara F. Hales, Ph.D. Tel: (514) 398-3610 E-mail: barbara.hales@mcgill.ca | President Fax: (514) 398-7120 |

| COMMITTEES (continued) | | | |
|--|---|---|--|
| COMMITTEES (continued) | | | |
| Edward D. Levin, Ph.D. Tel: (919) 681-6273 E-mail: edlevin@duke.edu | NBTS Organizer Fax: (919) 681-3416 | Katherine L. Wisner, M.D., M.S. Tel: (412) 246-6564 E-mail: wisnerkl@upmc.edu | Fax: (412) 246-6960 |
| Susan Makris, M.S. Tel: (703) 347-8522 E-mail: makris.susan@epa.gov | NBTS Organizer Fax: (703) 347-8692 | Louise M. Winn, Ph.D. Tel: (613) 533-6465 E-mail: winnl@post.queensu.ca | Education Committee Chair Fax: (613) 533-6412 |
| Kenneth Lyons Jones, M.D. Tel: (619) 294-6460 E-mail: klyons@ucsd.edu | OTIS Organizer Fax: (619) 220-0228 | John M. Rogers, Ph.D. Tel: (919) 541-5177 E-mail: rogers.john@epa.gov | Vice President Fax: (919) 541-4017 |
| Dee L. Quinn, M.S., CGC Tel: (520) 626-3547 E-mail: dquinn@email.arizona.edu | OTIS Organizer Fax: (520) 626-2720 | Edward D. Levin, Ph.D. Tel: (919) 681-6273 E-mail: edlevin@duke.edu | NBTS Organizer Fax: (919) 681-3416 |
| Tonia M. Masson Tel: (703) 438-3104 E-mail: tmasson@teratology.org | Executive Director Fax: (703) 438-3113 | Susan Makris, M.S. Tel: (703) 347-8522 E-mail: makris.susan@epa.gov | NBTS Organizer Fax: (703) 347-8692 |
| PROGRAM COMMITTEE FOR CME 2 | | Kenneth Lyons Jones, M.D. Tel: (619) 294-6460 E-mail: klyons@ucsd.edu | OTIS Organizer Fax: (619) 220-0228 |
| Barbara F. Hales, Ph.D. Tel: (514) 398-3610 E-mail: barbara.hales@mcgill.ca | Chair Fax: (514) 398-7120 | Dee L. Quinn, M.S., CGC Tel: (520) 626-3547 | OTIS Organizer Fax: (520) 626-2720 |
| Marianne Barrier, Ph.D. Tel: (919) 541-7712 E-mail: barrier.marianne@epa.gov | Postdoctoral Member Fax: (919) 541-4017 | E-mail: dquinn@email.arizona.edu PUBLIC AFFAIRS COMMITTEE | |
| Jack B. Bishop, Ph.D. Tel: (919) 541-1876 E-mail: bishop@niehs.nih.gov | Fax: (919) 316-4511 | Patricia M. Bittner, M.S. Tel: (301) 504-7263 E-mail: pbittner@cpsc.gov | Chair Fax: (301) 504-0137 |
| Patricia M. Bittner, M.S., M.S. Publ Tel: (301) 504-7263 E-mail: pbittner@cpsc.gov | ic Affairs Committee Chair Fax: (301) 504-0137 | Michele Bouisset-Leonard, Ph.D. Tel: (32) 23862618 E-mail: michele.leonard@ucb.com | 2011 Fax: (32) 23862798 |
| Elaine M. Faustman, Ph.D. Tel: (206) 685-2269 E-mail: faustman@u.washington.edu | Fax: (206) 685-4696 | Stephen B. Harris, Ph.D., Fellow ATS Tel: (619) 469-7886 E-mail: steve@sbhgrp.com | 2010 Fax: (619) 469-6852 |
| John M. Graham, Jr., M.D., Sc.D. Tel: (310) 423-9909 E-mail: john.graham@cshs.org | Fax: (310) 423-9752 | Gloria D. Jahnke, D.V.M. Tel: (919) 541-3376 E-mail: jahnke@niehs.nih.gov | 2012 |
| Lewis B. Holmes, M.D. Tel: (617) 726-1742 E-mail: holmes.lewis@mgh.harvard.edu | Fax: (617) 724-1911 | Gary L. Kimmel, Ph.D. Tel: (252) 261-8057 E-mail: kimmel.gary@gmail.com | 2010 Fax: (252) 261-8057 |
| Thomas B. Knudsen, Ph.D. Tel: (919) 541-9776 E-mail: knudsen.thomas@epa.gov | Fax: (919) 541-1194 | Russell S. Kirby, Ph.D., M.S., FACE Tel: (813) 396-2347 E-mail: rkirby@health.usf.edu | 2011 Fax: (813) 905-9998 |
| James L. Mills, M.D. Tel: (301) 496-5394 E-mail: jamesmills@nih.gov | Fax: (301) 402-2084 | Cecilia A. Lyons Gaffaney, M.D. Tel: (562) 762-6511 E-mail: cksapphire@aol.com | 2012 Fax: (408) 402-3196 |
| Sonja A. Rasmussen, M.D., M.S. Tel: (404) 498-3908 E-mail: skr9@cdc.gov | Fax: (404) 498-3040 | Richard K. Miller, Ph.D. Tel: (585) 275-2520 E-mail: richardk_miller@urmc.rochester. | 2010 Fax: (585) 244-2209 edu |
| Melissa Sherman Tassinari, Ph.D., DABT Tel: (301) 796-2061 E-mail: melissa.tassinari@fda.hhs.gov | | James L. Mills, M.D. Tel: (301) 496-5394 E-mail: jamesmills@nih.gov | 2010 Fax: (301) 402-2084 |
| Janet Uriu-Adams, Ph.D. Tel: (530) 752-4658 E-mail: jyuriuadams@ucdavis.edu | Fax: (530) 752-8966 | Asher Ornoy, M.D. Tel: 972 26758239 E-mail: ornoy@cc.huji.ac.il | 2012 Fax: 972 26758430 |

| Eias A. Zahalka, Ph.D., M.B.A. Tel: (301) 610-2180 | 2011 Fax: (301) 738-2362 | Kevin Jeannette Tel: (201) 748-7760 | Wiley Representativ |
|--|---|--|---|
| E-mail: eias.zahalka@bioreliance.com | | E-mail: kjeannet@wiley.com | |
| ımes H. Kim, Ph.D., DABT Tel: (202) 659-3306 (131) E-mail: jkim@hesiglobal.org | Ad Hoc | Diana M. Juriloff, Ph.D. Tel: (604) 822-5786 E-mail: juriloff@interchange.ubc.ca | <i>BDRA</i> Edito Fax: (604) 822-534 |
| fichael D. Shelby, Ph.D. Tel: (919) 541-3455 E-mail: shelby@niehs.nih.gov | Ad Hoc Fax: (919) 316-4511 | George P. Daston, Ph.D. Tel: (513) 627-2886 E-mail: daston.gp@pg.com | BDRB Edito Fax: (513) 627-032 |
| laudine Torfs, Ph.D. Tel: (510) 704-1594 E-mail: cptorfs@aol.com | Ad Hoc Fax: (510) 848-2561 | Rocky S. Tuan, Ph.D. Tel: (412) 648-2603 E-mail: rst13@pitt.edu | BDRC Edito Fax: (412) 624-554 |
| arbara F. Hales, Ph.D. Tel: (514) 398-3610 | President Fax: (514) 398-7120 | SCIENCE COMMITTEE (Ad Hoc) | |
| E-mail: barbara.hales@mcgill.ca | | Elaine M. Faustman, Ph.D. Tel: (206) 685-2269 E-mail: faustman@u.washington.edu | Cha Fax: (206) 685-469 |
| (ichael A. Schellpfeffer, M.D., M.S. Tel: (262) 658-2133 E-mail: maschellpfeffer@gmail.com | Chair Fax: (262) 658-2699 | Jane Adams, Ph.D. Tel: (617) 287-6346 E-mail: jane.adams@umb.edu | 20) Fax: (617) 287-633 |
| lichael G. Narotsky, Ph.D. Tel: (919) 541-0591 E-mail: narotsky.michael@epa.gov | Vice-Chair Fax: (919) 541-4017 | Christina D. Chambers, Ph.D., M.P.H. Tel: (619) 294-3791 E-mail: chchambers@ucsd.edu | 20 Fax: (619) 220-022 |
| aren A. Augustine, Ph.D. Tel: (609) 818-3406 E-mail: karen.augustine@bms.com | 2010 Fax: (732) 227-3982 | George P. Daston, Ph.D. Tel: (513) 627-2886 E-mail: daston.gp@pg.com | 20 Fax: (513) 627-03 |
| ızan L. Carmichael, Ph.D. Tel: (510) 597-7056 E-mail: scarmichael@marchofdimes.com | 2012 Fax: (510) 450-5812 | John M. DeSesso, Ph.D. Tel: (571) 227-7261 E-mail: jdesesso@exponent.com | 20 Fax: (571) 227-72 |
| laine Z. Francis, Ph.D. Tel: (202) 564-0928 E-mail: francis.elaine@epa.gov | 2010 Fax: (202) 565-2568 | J. David Erickson, D.D.S., Ph.D. Tel: (678) 525-9695 E-mail: erickson.jdavid@gmail.com | 20 Fax: (770) 532-97 |
| erence R. S. Ozolins, Ph.D. Tel: (613) 533-3306 E-mail: ozolinst@queensu.ca | 2013 Fax: (613) 533-6412 | Karen Filkins, M.D. Tel: (310) 748-2681 E-mail: kfilkins@comcast.net | 20 Fax: (239) 394-13 |
| inet Uriu-Adams, Ph.D. Tel: (530) 752-4658 E-mail: jyuriuadams@ucdavis.edu | 2010 Fax: (530) 752-8966 | Barbara F. Hales, Ph.D. Tel: (514) 398-3610 E-mail: barbara.hales@mcgill.ca | 20 Fax: (514) 398-71 |
| acey E.K. White, Ph.D. Tel: (610) 270-6168 E-mail: tacey.e.white@gsk.com | 2013 Fax: (610) 270-7622 | Wafa A. Harrouk, Ph.D. Tel: (301) 796-0908 E-mail: wafa.harrouk@fda.hhs.gov | 20 Fax: (301) 796-98 |
| . David Wise, Ph.D. Tel: (215) 652-6974 E-mail: ld_wise@merck.com | 2012 Fax: (215) 652-7758 | Ronald D. Hood, Ph.D., Fellow ATS Tel: (205) 339-9460 E-mail: rhood@as.ua.edu | 20 |
| laine Z. Francis, Ph.D. Tel: (202) 564-0928 E-mail: francis.elaine@epa.gov | Past Chair Fax: (202) 565-2568 | Kenneth Lyons Jones, M.D. Tel: (619) 294-6460 E-mail: klyons@ucsd.edu | 20 Fax: (619) 220-02 |
| arbara F. Hales, Ph.D. Tel: (514) 398-3610 E-mail: barbara.hales@mcgill.ca | President Fax: (514) 398-7120 | Claudia Kappen, Ph.D. Tel: (225) 763-2781 E-mail: claudia.kappen@pbrc.edu | 20 Fax: (225) 763-02 |
| Colette E. Bean Tel: (201) 748-6297 E-mail: cbean@wiley.com | Wiley Representative Fax: (201) 748-5931 | Thomas B. Knudsen, Ph.D. Tel: (919) 541-9776 E-mail: knudsen.thomas@epa.gov | 20 Fax: (919) 541-119 |

| COMMITTEES (continued) | | | |
|---|--|--|---|
| Mary S. Marty, Ph.D. Tel: (989) 636-6653 E-mail: msmarty@dow.com | 2010 Fax: (989) 638-9863 | Chris J. Stodgell, Ph.D. Tel: (585) 275-1902 E-mail: chris_stodgell@urmc.rochester.edu | 2012 |
| Anthony R. Scialli, M.D. Tel: (571) 527-1709 E-mail: tony.scialli@tetratech.com | 2010 Fax: (703) 684-2223 | Anthony M. DeLise, Ph.D. Tel: (908) 231-5937 E-mail: anthony.delise@sanofi-aventis.com | Past Chair Fax: (908) 231-2629 |
| Gary M. Shaw, Ph.D. Tel: (650) 721-5746 E-mail: gmshaw@stanford.edu | 2010 Fax: (650) 721-5751 | Jane Adams, Ph.D. Tel: (617) 287-6346 E-mail: jane.adams@umb.edu | Council Liaison Fax: (617) 287-6336 |
| J. Christopher States, Ph.D. Tel: (502) 852-5347 E-mail: jcstates@louisville.edu | 2010 Fax: (502) 852-2492 | Barbara F. Hales, Ph.D. Tel: (514) 398-3610 E-mail: barbara.hales@mcgill.ca | President Fax: (514) 398-7120 |
| Rochelle W. Tyl, Ph.D., DABT Tel: (919) 541-5972 E-mail: rwt@rti.org | 2010 Fax: (919) 541-5956 | Kimberly Brannen, Ph.D. Tel: (267) 532-3870 E-mail: brannen@med.unc.edu | Newsletter Editor Fax: (215) 443-8587 |
| Barbara F. Hales, Ph.D. Tel: (514) 398-3610 E-mail: barbara.hales@mcgill.ca | President Fax: (514) 398-7120 | Ava Schlisser, B.Sc. Tel: (514) 398-3634 E-mail: ava.schlisser@mail.mcgill.ca | <i>PDC</i> Editor 2010 Fax: (514) 398-7120 |
| STUDENT AFFAIRS COMMITTEE | | Lutfiya Miller, B.Sc. Tel: (416) 978-5061 | <i>Ad Hoc</i> Fax: (416) 978-8511 |
| Meredith S. Rocca, Ph.D., DABT Tel: (650) 877-7625 E-mail: meredith.rocca@elan.com | Chair | E-mail: lutfiya.miller@utoronto.ca Jessica Nicole Sweeting, Ph.D. Tel: (416) 978-5061 | Ad Hoc |
| Robert G. Ellis-Hutchings, Ph.D. Tel: (989) 636-1928 E-mail: rellis-hutchings@dow.com | 2011 Fax: (989) 638-9305 | E-mail: jessica.scaysbrook@utoronto.ca | |
| Jane F. Rasco Tel: (205) 348-1802 E-mail: jrasco@biology.as.ua.edu | 2012 Fax: (205) 348-1786 | | |
| Jeffrey H. Charlap, M.S. Tel: (267) 532-3755 E-mail: jeffrey.charlap@crl.com | Ad Hoc Fax: (215) 443-8587 | | |
| Sura Alwan, B.Sc., M.Sc. Tel: (604) 875-2000 (5624) E-mail: alwans@interchange.ubc.ca | Ad Hoc, Student Fax: (604) 875-3019 | | |
| Mary Alice Smith, Ph.D. Tel: (706) 542-1599 E-mail: masmith@uga.edu | Past Chair Fax: (706) 542-7472 | | |
| Barbara F. Hales, Ph.D. Tel: (514) 398-3610 E-mail: barbara.hales@mcgill.ca | President Fax: (514) 398-7120 | | |
| WEB SITE COMMITTEE | | | |
| Edward W. Carney, Ph.D. Tel: (989) 636-2580 E-mail: ewcarney@dow.com | Chair Fax: (989) 638-9863 | | |
| Kevin H. Denny, M.S. Tel: (610) 738-6725 E-mail: kdenny@cephalon.com | 2014 Fax: (610) 738-6377 | | |
| Ronald D. Hood, Ph.D., Fellow ATS Tel: (205) 339-9460 E-mail: rhood@as.ua.edu | 2011 | | |
| Randall S. Kuhlmann, M.D., Ph.D. Tel: (414) 805-9019 E-mail: rkuhlman@mcw.edu | 2013 Fax: (414) 805-6622 | | |

2010 Sustaining Members

(as of March 26, 2010)

PLATINUM

Charles River
Pfizer, Inc.
WIL Research Laboratories, LLC

GOLD

The J&J Pharma R&D Companies

SILVER

American Petroleum Institute Eli Lilly and Company Experimur Reproductive Toxicology Center

2010 Annual Meeting Sponsors

(as of March 26, 2010)

The Teratology Society thanks the following Sponsors:

PLATINUM

Birth Defects Center, University of Louisville

Charles River

ILSI HESI Developmental and Reproductive Toxicology (DART) Technical Committee

March of Dimes Birth Defects Foundation

Pfizer Inc.

PPD, Inc.

U.S. EPA, Office of Research and Development

WIL Research Laboratories, LLC

Wiley-Blackwell

GOLD

Abbott Laboratories

Burroughs Wellcome Fund

Exponent, Inc.

SILVER

Lilly USA, LLC

MPI Research

sanofi-aventis

CONTRIBUTOR

Barbara D. Abbott, Ph.D.

Deborah K. Hansen, Ph.D.

Endo Pharmaceuticals

Merck Research Laboratories

Society of Toxicology



General Information

Registration

The Teratology Society Annual Meeting registration is located in the Marriott Ballroom Foyer.

Hours: Friday, 4:00 PM-6:00 PM

Saturday, 7:00 AM-6:00 PM Sunday, 8:00 AM-7:00 PM Monday, 7:30 AM-6:00 PM Tuesday, 7:00 AM-5:00 PM Wednesday, 8:00 AM-2:00 PM

Hotel Map

To assist you in locating the hotel registration desk, meeting rooms, and Exhibit Hall there is a map of the Ballroom Level located on page 304.

Photography and Recording Policy

Photography, video, and/or audio recording of scientific presentations is prohibited without advance specific consent of the presenter(s)/author(s). Session Chairs are asked to strictly enforce this policy and individuals who do not comply will be asked to leave the session. In addition, cameras and recording devices are prohibited in the Exhibit Hall.

Teratology Society Annual Meeting registrants grant the Teratology Society permission to reproduce, copy, and publish photographs taken at the Annual Meeting unless written notification by the registrant, stating otherwise, is submitted to the Teratology Society headquarters office prior to the Annual Meeting or while registering on-site.

First Aid and Security

The Marriott Louisville Downtown has equipped each meeting room with a house phone for use in case of an emergency. If you need medical or security assistance pick up the house phone and dial 0, the hotel operator will connect you to the correct department.

Award/Lectures

Narsingh Agnish Fellowship

This award recognizes Narsingh Agnish's contributions to the Teratology Society, and particularly the implementation of the Education Course. The Narsingh Agnish Fellowship facilitates the continuing participation of senior Teratology Society members at the Annual Meeting. The 2010 recipient of this award is Thomas H. Shepard, who will present on Saturday, June 26 at 1:30 PM.

Robert L. Brent Lecture

This award recognizes Robert L. Brent's contributions to the Teratology Society, and particularly to the implementation of the "Teratogen Update." The purpose of the Robert L. Brent Lecture is to facilitate the discussion of new and old teratogens during the Annual Meeting. The 2010 recipient of this award is Donald P. Frush, who will present on Sunday, June 27 at 12:00 NOON.

F. Clarke Fraser Award

This award honors F. Clarke Fraser, one of the founding members of the Teratology Society, for his many contributions to the field of developmental toxicology. This year's award recipient is Marcia L. Feldkamp, who will present on Sunday, June 27 at 1:00 PM.

Distinguished Service Award

To coincide with our 50th Anniversary celebrations, the Teratology Society has established the Distinguished Service Award. This award honors an individual who has provided distinguished service to the Teratology Society. The first recipient of this award is F. Clarke Fraser. The award will be presented during the 50th Anniversary Meeting Celebration session on Tuesday, June 29 at 4:45 PM.

Josef Warkany Lecturer

This award recognizes Josef Warkany's contributions to the Teratology Society. Dr. Warkany was the first person to demonstrate that exposures to environmental chemicals are responsible for production of congenital malformation. His early studies culminated in the formulation of the scientific principles of teratology. This award recognizes a scientist who has significantly contributed to the field of teratology over his/her career. This year's lecture will be presented by Diana M. Juriloff, on Sunday, June 27 at 8:15 AM.

James G. Wilson Publication Award

This annual award is presented in recognition of the best paper accepted or published in the journal *Birth Defects Research*. The dual purpose of the award is to provide recognition to the authors of the best paper and to encourage authors trained in various disciplines to submit high quality papers to *Birth Defects Research*. The paper selected for this year's award is *Regulations of Folate Receptor 1 Gene Expression in the Visceral Endodem*. J. Michael Salbaum will present the data on Sunday, June 27 at 1:30 PM.

James C. Bradford Memorial Student Poster Award

This is an award for the best poster presentation by a student at the annual meetings of the Teratology Society and Neurobehavioral Teratology Society (NBTS). It is jointly sponsored by the Middle Atlantic Reproduction and Teratology Association (MARTA) and sanofi-aventis. These awards are presented to awardees during the Banquet on Wednesday, June 30 at 7:30 PM.

Continuing Medical Education (CME)

The Teratology Society is offering a CME Program to clinicians and trainees for many of the scientific sessions held during the 50th Annual Meeting. The CME Program is available on the Teratology Society Web site at www.teratology.org.

This is the Society's third year offering CME credits in an effort to broaden the audience at our scientific sessions, while enhancing the professional development of clinicians who integrate the outcome of the research into everyday practice. Talks designated as part of the CME Program are identified by the CME icon the agenda.

Teratology Society CME Program

This event is approved for up to 26 credits by the Center for Continuing Health Professional Education (CCHPE). The Center for CCHPE, Faculty of Medicine, McGill University is fully accredited by the Committee on Accreditation of Canadian Medical Schools and through the (CACMS) is accredited to award AMA PRA category 1 credits.

This event is an Accredited Group Learning Activity as defined by the Maintenance of Certification program of the Royal College of Physicians and Surgeons of Canada.

Through a reciprocal agreement between the American Medical Association and the Royal College of Physicians and Surgeons of Canada, the Center for CCHPE, Faculty of Medicine, McGill University designates this activity for AMA PRA Category 1 credit(s) up to the maximum number of credit hours noted above.

Each physician should claim only those hours of credit that he/she actually spent at the educational activity.

Daily Breakdown on CME Credits

The following is the daily breakdown of credits available. Each attendee is responsible for claiming credit commensurate with the extent of your participation in the scientific activities.

Saturday, June 26: 4 credits Sunday, June 27: 5.5 credits Monday, June 28: 7 credits Tuesday, June 29: 4.5 credits Wednesday, June 30: 5 credits

Required CME Program—Intent to Participate

Teratology Society Annual Meeting attendees who wish to receive CME credits must complete the CME participation form, which is available on-line on the Society's Web site and at the registration desk for on-site participants.

Required Daily Sign-In Sheets

Teratology Society Annual Meeting attendees who wish to receive CME credits are responsible for signing the attendance sheet each day of participation. The sign-in sheets will be located at the registration desk during registration hours. Only the current day's sign-in sheet will be available at the registration desk.

CME Certificates of Participation

Certificates of CME participation, based on the daily sign-in sheets, will be available at the registration desk. Attendees are required to state the number of CME credits they are claiming and sign the certificate prior to departure. Certificates will be issued until 2:00 PM on Wednesday, June 30. Certification of Continuing Medical Education credits is the responsibility of the attendee.

ACCME Accreditation

Disclosure of Faculty and Industry Relationships

In accordance with ACCME policy, all faculty members have signed a conflict of interest statement in which they have disclosed any significant financial interests or other relationships with industry relative to topics they will discuss at this program. At the beginning of the program, faculty members are expected to disclose any such information to participants. Such disclosure allows you to evaluate better the objectivity of the information presented in lectures. Please report on your evaluation form any undisclosed conflict of interest you perceive.

Highlights

Welcoming Reception

The Welcoming Reception will be held in the Marriott Ballroom I on Sunday, June 27 at 6:00 PM. The reception is open to registered attendees of the Teratology Society and NBTS Annual Meetings. Please wear your badge to gain entrance to the reception. This year the reception will feature a Silent Auction with certificates for local dining and attractions and much more! Come prepared to support the Teratology Society.

Exhibits

Exhibits will be open in Marriott Ballroom I to attendees Sunday evening through Tuesday afternoon featuring companies offering products and services relating to teratology. Scientific posters will be displayed in the Exhibit Hall and complimentary coffee breaks will take place in the hall Monday through Tuesday morning.

Exhibit Hall Hours:

Sunday, 6:00 PM-8:00 PM Monday, 8:00 AM-7:00 PM Tuesday, 8:00 AM-2:00 PM

Poster Sessions

The Poster Sessions will be held in the Marriott Ballroom I on Monday, June 28 and Tuesday, June 29. The TS/NBTS/OTIS Joint Poster Session will take place on Monday. The posters for this session will be on display starting at 12:30 PM. The authors will be present for discussion from 5:00 PM–7:00 PM. The TS/NBTS Joint Poster Session will take place on Tuesday. The posters for this session will be on display starting at 8:00 AM. The authors will be present for discussion from 12:00 NOON–2:00 PM.

Celebrating 50 Years and More...

To celebrate 50 years of success, we offer a session on Tuesday afternoon full of history and honors, a look forward and a bit of levity as well. The session will begin with a tribute to Dr. Josef Warkany, a founder and first President of the Teratology Society, by the pediatrician, geneticist and Warkany historian, Dr. Wladimir Wertelecki. A second founder, Dr. James Wilson, will be celebrated in a talk by Dr. Robert Brent, a charter member of the Society, Past President and Dr. Wilson's first graduate student. Then, Dr. F. Clarke Fraser, the third founder of the Society, will receive the first Teratology Society Distinguished Service Award. Having honored our history and all three of our founding fathers, we will then get a forward-looking perspective from our students and postdoctoral fellows—where they see the field and the Society heading in the coming decades. We will finish the session with a rousing game of Teratology Society jeopardy. Students will be recruited to play this Q&A game based on the History of the Teratology Society. Answers to most questions will be found on displays and in events throughout the meeting-prizes will be offered. Rumor has it that a few door prizes will be given to attendees as well! You won't want to miss this special session!

Banquet and Award Presentations

Plan to stay for the grand finale of the 50th Annual Meeting celebration on Wednesday, June 30—the Banquet. A reception (no host bar) will be held in the Marriott Ballroom Foyer beginning at 6:30 PM. Seating for dinner will begin at 7:30 PM in the Marriott Ballroom I. Join your colleagues in a celebratory champagne toast and dancing as this memorable year draws to a close.

The Banquet is included with your Teratology Society meeting registration. Tickets, which are distributed with your registration materials, are required for this event and are not transferable. Guest tickets can be purchased at the registration desk. Teratology Society Awards presented during the banquet are as follows:

Travel Awards
James C. Bradford Memorial Student Poster Award
Wilson Presentation Awards
Marie Taubeneck Award

XXIX Annual Volleyball Game

Come one, come all and join in the fun! The 29th Annual Volleyball Game is scheduled for Wednesday, June 30, from 6:30 AM–7:30 AM at the Baxter Jack's Volleyball Club. This is an event that you will not want to miss. Stop by the registration desk for more information on how to participate in this match—it is free and open to all attendees. If you don't play, come out and cheer!

Student/Postdoctoral Fellow Activities

Special events for student and postdoctoral attendees will occur throughout the Teratology Society meeting. These events were planned with you in mind and allow you to meet other students, postdoctoral fellows, and scientists in our field. The following special events are scheduled.

Saturday Mixer—Come get acquainted or reacquainted with your fellow student and postdoctoral attendees before the start of the meeting. Students and postdoctoral attendees are encouraged to meet at the Champions Sports Bar at 6:00 PM on Saturday, June 26.

Student and Postdoctoral attendees should plan to gather in groups of at least 6 to redeem coupons for a free drink and appetizer for the group to share. Your coupon will be in your registration materials. The coupons are only good for Saturday evening.

Annual Volleyball Game—Come out and show the "seasoned players" how it is done! The 29th Annual Volleyball Game is scheduled for Wednesday, June 30, from 6:30 AM–7:30 AM. If you don't play, come out and cheer!

Student/Postdoctoral Fellow Platform Session—Wilson Presentation Award Competition

This year's Student/Postdoctoral Platform Session showcases the work of eight students and postdoctoral fellows. The participants in this session were selected by the Student Affairs Committee from submitted abstracts. The presenters in this session will compete for the Wilson Presentation Award. This award was established in honor of James G. Wilson, one of the founding members of the Teratology Society and recognizes the work of students and postdoctoral fellows in the field of teratology. It is awarded based on the content and quality of the oral presentations. The two award winners will be announced during the Society Banquet on Wednesday, June 30. Make plans to support the Society's student and postdoctoral members by attending this session on Sunday, June 27 at 9:15 AM.

MARTA Student and Postdoctoral Fellow Career Event

Please be our guest for dinner, conversation, and networking at the Student/Postdoctoral Career Event on Monday, June 28, from 7:30 PM–9:30 PM. This popular event, hosted by the Middle Atlantic Reproduction and Teratology Association (MARTA), is for students and postdoctoral fellows attending the joint annual meetings of the Teratology Society, Neurobehavioral Teratology Society, and the Organization of Teratology Information Specialists. As you prepare for the next phase in your professional career, we offer you this opportunity to meet your fellow students and postdoctoral fellows and to interact with scientists from academia, government, and industry. This is also an opportunity for you to discuss your future and the various career paths available to you. This event has been overwhelmingly well received in the past and we hope to see you there.

While in Louisville

Conference Site

The Marriott Louisville Downtown is a smoke-free hotel featuring plush accommodations, Blu Italian Grille, Champions Sports Bar, and Starbucks Café. Located in the heart of downtown, the Louisville Marriott is adjacent to the 4th Street Live dining and entertainment district and within blocks of many of Louisville's museums and attractions like the Muhammad Ali Center, Louisville Slugger Museum, Louisville Glassworks, and a short drive to Churchill Downs.

The hotel has a full service business center open 24 hours to hotel guests, full service concierge, 24-hour guest room dining, local restaurant delivery, laundry/dry cleaning services, coin operated laundry, newsstand and gift shop, indoor pool, and has a 24-hour complimentary fitness center, featuring cardiovascular equipment and free weights.

Stay Connected While You Travel

The Teratology Society appreciates how important it is for attendees to stay connected to daily responsibilities while attending the meeting. The Teratology Society will provide Internet Café which will be open during the posted registration hours. The hotel will provide complimentary wireless Internet access in the meeting registration area for attendees who bring their own computers. Stop by the Teratology Society registration desk to obtain the access information.

If you would like to access the Internet in your guest room, the Marriott Louisville Downtown offers high-speed wireless Internet access for a daily rate of \$12.95.

Ground Transportation

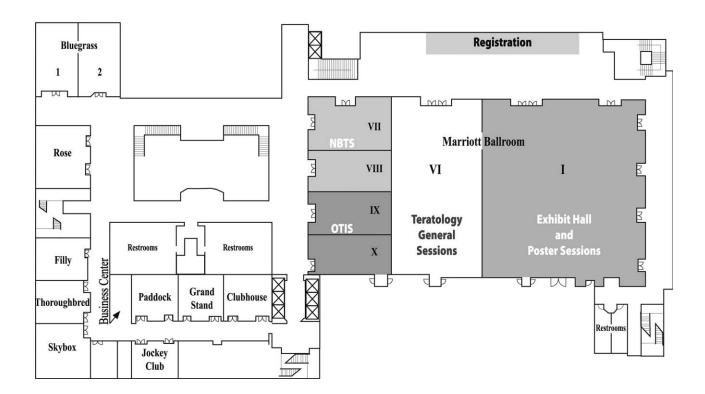
The estimated one way taxi fare from the Louisville International Airport to the hotel is \$20. Bus service is available for approximately \$2.50 each way. If you will be arriving by train or bus, the Greyhound bus terminal is located .8 miles from the hotel while Louisville Union Station is .4 miles southwest.

Hotel Parking

The Marriott Louisville Downtown offers both self parking and valet parking. Self parking is offered at \$21 per day and valet parking is \$25 per day. Off-site parking is also available for \$8 per day. All prices are subject to change.

Marriott Louisville Downtown Map

Second Floor





Program Agenda

FRIDAY, JUNE 25, 2010

3:00 PM-6:00 PM COUNCIL IA MEETING-Skybox Meeting Room

4:00 PM-6:00 PM REGISTRATION—Marriott Ballroom VI Foyer

SATURDAY, JUNE 26, 2010

7:00 AM-6:00 PM REGISTRATION—Marriott Ballroom VI Foyer

EDUCATION COURSE: COFFEE AND CONTINENTAL BREAKFAST—Marriott Ballroom VI 7:30 AM-8:00 AM

8:00 AM-11:30 AM EDUCATION COURSE (Separate Registration Required)—Marriott Ballroom VI

Session I: Prenatal Drug Disposition and Teratogenesis

Organized by the Education Committee, Chairperson, Louise M. Winn, Queen's University

8:00 AM-8:10 AM Welcome (ME

Barbara F. Hales, Teratology Society President 8:10 AM-8:15 AM Course Overview (MB)

Education Committee Chairperson, Louise M. Winn, Queen's University

8:15 AM-9:00 AM The Role of Biotransformation in Developmental Toxicology

Craig Harris, University of Michigan

9:00 AM-9:45 AM Stage- and Species-Specific Disposition of Toxicants during

Pregnancy

Edward W. Carney, The Dow Chemical Company

9:45 AM-10:00 AM

10:00 AM-10:45 AM Prenatal Ontogeny and Capabilities of Phase I and

J. Steven Leeder, Children's Mercy Hospitals and Clinics

Repair Capabilities in the Embryo 10:45 AM-11:30 AM

Peter G. Wells, University of Toronto

11:30 AM-1:30 PM LUNCH ON YOUR OWN

12:00 NOON-1:00 PM F. CLARKE FRASER AND DISTINGUISHED SERVICE AWARDS

COMMITTEE MEETING—Skybox Meeting Room

12:30 PM-5:30 PM TS/OTIS JOINT PREGNANCY REGISTRY WORKSHOP—Marriott Ballroom IX

Moderators: Christina D. Chambers, University of California, San Diego and Lewis B. Holmes, MassGeneral Hospital For Children

| 12:30 PM-12:40 PM | | Introduction |
|-------------------|-----|--|
| 12:40 PM-1:10 PM | W1 | Classifying Birth Defects in Reproductive Research Lewis B. Holmes, MassGeneral Hospital for Children |
| | | Point/Counterpoint |
| 1:10 PM-1:30 PM | W2 | Methodological Challenges in Surveillance of Spontaneous Abortion As a Reproductive Health Endpoint David A. Savitz, Mt. Sinai School of Medicine |
| 1:30 PM-1:50 PM | W3 | Studying Miscarriage Using Pregnancy Registries De-Kun Li, Kaiser Permanente Medical Group |
| 1:50 PM-2:10 PM | W4 | Organizing Pregnancy Registries during an Emergency Response Ava Marie S. Conlin, Naval Health Research Center |
| 2:10 PM-2:30 PM | W5 | The Vaccines and Medications in Pregnancy Surveillance System (VAMPSS): Launch of a New System for Post-Marketing Surveillance Christina Chambers, University of California, San Diego |
| 2:30 PM-3:15 PM | | Panel Discussion: FDA Pregnancy Registry Guidance Document Revisions Moderator: Melissa S. Tassinari, U.S. Food and Drug Administration |
| 3:15 PM-3:30 PM | W6 | Universal Call Center for Medicine Use in Pregnancy Michael McDonagh, CKR Consulting |
| 3:30 PM-3:45 PM | | Break |
| 3:45 PM-4:00 PM | W7 | Birth Defect Categorization Systems Employed by Pregnancy Registries Covington DL, McKain LR, Hurst N. Pharmaceutical Product |
| | | Development Inc., Wilmington, NC, United States. |
| 4:00 PM-4:15 PM | W8 | Pregnancy Drug Safety Labeling and Surveillance at the Time of Product Approval McKain LF. Covington DL. Pharmaceutical Product Development, Inc., Wilmington, NC, United States. |
| 4:15 PM-4:30 PM | W9 | Comparative Safety of Topiramate during Pregnancy Hernandez-Diaz S¹, <u>Mittendorf R²</u> , Holmes LB³. ¹Harvard School of Public Health, Boston, MA, United States, ²Loyola University Chicago, Chicago, IL, United States, ³MassGeneral Hospital for Children, Boston, MA, United States. |
| 4:30 PM-4:45 PM | W10 | UCB Antiepileptic Drug Pregnancy Registry <u>Scheuerle A</u> ¹ , Harden C ² , Alekar S ³ , Leppik I ⁴ , Montouris G ⁵ . ¹ Tesserae Genetics, Dallas, TX, United States, ² University of Miami School of Medicine, Miami, FL, United States, ³ UCB, Inc., Raleigh, NC, United States, ⁴ University of Minnesota, Minneapolis, MN, United States, ⁵ Boston University School of Medicine and Boston Medical Center, Boston, MA, United States. |

4:45 PM-5:00 PM W11 Medication Exposure in Pregnancy Risk Evaluation Program

<u>Li DK</u>¹, Andrade S², Scott P³, Cheetham C⁴, Cooper W⁵, Davis R⁶, Dublin S⁷, Pawloski P⁸, Raebel M⁹, Smith D¹⁰, Toh D¹¹. ¹Kaiser Permanente Northern California, Oakland, CA, United States, ²Meyers Primary Care Institute, Worcester, MA, United States, ³U.S. Food and Drug Administration, Silver Spring, MD, United States, ⁴Kaiser Permanente Southern California, Los Angeles, CA, United States, ⁵Vanderbilt University School of Medicine, Vanderbilt University School of Medicine, Vanderbilt University School of Medicine, United States, ⁶Kaiser Permanente Georgia, Atlanta, GA, United States, ⁷Group Health Center for Health Studies, Seattle, WA, United States, ⁸HealthPartners Research Foundation, Bloomington, MN, United States, ⁹Kaiser Permanente Colorado, Denver, CO, United States, ¹⁰Kaiser Permanente Northwest, Portland, OR, United States, ¹¹Harvard Medical School and Harvard Pilgrim Health Care, Boston, MA, United States.

5:00 PM-5:30 PM Poster Session

Posters WP1-WP4

1:30 PM-4:45 PM EDUCATION COURSE (Separate Registration Required)—Marriott Ballroom VI

Session II: Postnatal Drug Disposition and Teratogenesis

Organized by the Education Committee, Chairperson, Louise M. Winn, Queen's University

1:30 PM-1:45 PM Narsingh Agnish Fellowship

Thomas H. Shepard, University of Washington

1:45 PM-2:15 PM Lactational Transfer of Drugs

Sue Marty, The Dow Chemical Company

2:15 PM-3:00 PM Postnatal Metabolic Systems (ME

Ronald N. Hines, Medical College of Wisconsin

3:00 PM-3:15 PM Break

3:15 PM-4:00 PM Toxicity Profile Differences between Adults and Juveniles (ME)

Melissa J. Beck, WIL Research Laboratories, LLC

4:00 PM-4:45 PM Environmental Influences (ME

Carl L. Keen, University of California, Davis

 $6:00\ PM-8:00\ PM \qquad STUDENT/POSTDOCTORAL\ FELLOW\ MIXER-Champions\ Sport\ Bar$

SUNDAY, JUNE 27, 2010

8:00 AM-7:00 PM REGISTRATION—Marriott Ballroom VI Foyer

8:00 AM-8:15 AM PRESIDENT'S WELCOME—Marriott Ballroom VI

50 Years of Progress in Understanding the Causes of Three Common Birth Defects

Diana M. Juriloff, University of British Columbia

Diana 111. juruoji, Oniversity of British Columbia

9:15 AM-11:45 AM STUDENT/POSTDOCTORAL FELLOW PLATFORM SESSION I—Marriott Ballroom VI

Wilson Presentation Award Competition

Chairpersons: Meredith S. Rocca, Elan Pharmaceuticals, Jeffrey H. Charlap, Charles River and Jane F. Rasco, University of Alabama

Organized by the Student Affairs Committee

9:15 AM-9:30 AM Introduction

9:30 AM-9:45 AM 1 Exposure of Organogenesis Stage Mouse Embryos to Hydroxyurea Induces Nuclear 4-hydroxy-2-nonenal Protein Adducts

Schlisser AE, Hales BF. McGill University, Montreal, QC, Canada.

TERATOLOGY SOCIETY PROGRAM

9:45 AM-10:00 AM
2 Maternal DNA Hypomethylation, Methionine Pathway Metabolites,
Lifestyle Factors and Congenital Heart Defects
Chowdhury S, Cleves MA, MacLeod SL, Zhao W, Hobbs CA. University

<u>Chowdhury S</u>, Cleves MA, MacLeod SL, Zhao W, Hobbs CA. University of Arkansas for Medical Sciences, Arkansas Children's Hospital Research Institute, Little Rock, AR, United States.

10:00 AM-10:15 AM 3 A Toxicity Signature for Species-Specific Disruption of Embryonic

Vasculogenesis Derived from ToxCast™ In Vitro Profiling Data

<u>Kleinstreuer N¹</u>, Dix D¹, Judson R¹, Kavlock R¹, Sipes N¹, Reif D¹,

Chandler K¹³, Rountree M¹, DeWoskin R², Singh A⁴, Spencer R⁴,

Knudsen T¹.¹NCCT, ORD, U.S. EPA, Research Triangle Park, NC,

United States, ²NCEA, ORD, U.S. EPA, Research Triangle Park, NC,

United States, ³NHEERL, ORD, U.S. EPA, Research Triangle Park, NC,

United States, ⁴Lockheed Martin, Research Triangle Park, NC, United States

10:15 AM-10:30 AM 4 Exposure to 2-methoxyacetic Acid Induces Limb Malformations and

Histone 4 Hyperacetylation In Vitro

Dayan C, Hales BF. McGill University, Montreal, QC, Canada.

10:30 AM-10:45 AM Break

10:45 AM-11:00 AM 5 High-Throughput Screening of ToxCast™ Phase I Chemicals in an Embryonic Stem Cell Assay Reveals Potential Disruption of a Critical

Developmental Signaling Pathway

<u>Chandler K</u>^{1,2}, Hunter S', Jeffay S', Nichols H', Hoopes M', Barrier M', Habig J³, Knudsen T². ¹Integrated Systems Toxicology Division, U.S. EPA, Research Triangle Park, NC, United States, ²National Center for Computational Toxicology, U.S. EPA, Research Triangle Park, NC,

United States, ³Endogenics, Eagle, ID, United States.

Valproic Acid Disrupts Chondrocyte Differentiation and Increases Apoptosis *In Vitro* in Murine Limb Buds

Paradis FH, Hales BF. McGill University, Montreal, QC, Canada.

 $11:15~AM-11:30~AM \qquad 7 \qquad Dissecting~the~Action~of~Bisphenol-A~on~Germline~Maintenance$

Using C. elegans

<u>Allard P.</u> Colaiacovo M. Harvard Medical School, Genetics, Boston, MA, United States.

11:30 AM-11:45 AM 8 Transfer of Dendrimers in the Perfused Human Placental Lobule
In Vitro: Prospects for Use As Drug Carriers during Pregnancy

Rinderknecht AL¹, Menjoge AR^{2,3}, Kannan RM^{2,3}, Kim CJ³, Romero R³, Faridnia M¹, Miller RK¹. ¹University of Rochester, Rochester, NY, United States, ²Wayne State University, Detroit, MI, United States, ³National Institute of Child Health and Human Development, Detroit, MI,

United States.

11:45 AM-12:00 NOON BOX LUNCH PICK-UP

12:00 NOON-1:00 PM TS/OTIS JOINT ROBERT L. BRENT LECTURE (A Box Lunch Session)—Marriott Ballroom VI

Ionizing Radiation Exposure to the Fetus and Infant from Medical Imaging:

A Radiologist's Perspective (L1)

11:00 AM-11:15 AM

Donald P. Frush, Duke University Medical Center

1:00 PM-1:30 PM F. CLARKE FRASER AWARD—Marriott Ballroom VI

Gastroschisis: A Journey to Discover the Pieces of the Puzzle (L2)

Marcia L. Feldkamp, University of Utah

1:30 PM-2:00 PM JAMES G. WILSON PUBLICATION AWARD—Marriott Ballroom VI

Regulations of Folate Receptor 1 Gene Expression in the Visceral Endodem

J. Michael Salbaum, Pennington Biomedical Research Center

2:00 PM-3:00 PM TS/ETS JOINT EXCHANGE LECTURE—Marriott Ballroom VI

Pros and Cons of the Extended One-Generation Study Protocol

Teratology Society

The Cons of the Extended One-Generation Study Protocol (L3)
Paul M.D. Foster, National Institute of Environmental Health Sciences

European Teratology Society

The Extended One-Generation Reproduction Toxicity Study: Improving Hazard Assessment

and Saving Animals? (L4)

Aldert H. Piersma, National Institute for Public Health and the Environment (RIVM), Bilthoven

3:00 PM-3:15 PM BREAK

3:15 PM–5:45 PM VITAMIN B $_{12}$ AND NEURAL TUBE DEFECTS: IS IT TIME TO FORTIFY FOOD WITH B $_{12}$ SYMPOSIUM—Marriott Ballroom VI

Chairperson: James L. Mills, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH

3:15 PM-3:40 PM S1 Vitamin B₁₂ Deficiency and NTDs: Is There a Causal

Relationship?

James L. Mills, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH

3:40 PM-4:05 PM S2 Normal Vitamin B₁₂ Physiology, the Pathophysiology of B₁₂

Deficiency, and Their Relevance to Treatment and Fortification
Ralph Carmel, New York Methodist Hospital and Weill Medical College

4:05 PM-4:30 PM S3 Should FDA Require Vitamin B₁₂ Fortification of Enriched Flour?

es CME

of Cornell University

Godfrey P. Oakley, Emory University

4:30 PM-4:55 PM S4 Should We Fortify Food with B₁₂ Now? No

Ralph Green, University of California Davis Medical Center
4:55 PM-5:45 PM
Panel Discussion and Response to Questions

Panel Discussion and Response to Questions from the Audience

6:00 PM-8:00 PM TS/NBTS JOINT WELCOME RECEPTION AND EXHIBITS OPEN—Marriott Ballroom I

Silent Auction

MONDAY, JUNE 28, 2010

7:00 AM-8:00 AM BDRB EDITORIAL BOARD MEETING—Filly Meeting Room

7:30 AM-6:00 PM REGISTRATION—Marriott Ballroom VI Foyer

8:00 AM-7:00 PM EXHIBIT HALL OPEN—Marriott Ballroom I

8:00 AM-9:00 AM TS/OTIS JOINT STATE OF THE ART LECTURE—Marriott Ballroom VI

Palate Development: Molecular Perspectives and Current Understanding (L5)

Robert M. Greene, Director, Birth Defects Center, University of Louisville

9:00 AM-9:15 AM BREAK

9:15 AM-11:45 AM TS/NBTS/OTIS JOINT SYMPOSIUM—Marriott Ballroom VI

Reproductive Psychiatry

Chairpersons: Katherine L. Wisner, University of Pittsburgh Medical Center and Adrienne Einarson, The Motherisk Program

| 9:15 AM-9:20 AM | | Introduction (ME) |
|-------------------|------------|---|
| 9:20 AM-9:50 AM | S 5 | Prenatal SRI Exposure: Where Does Neonatal Behavioral Syndrome End and Neurobehavioral Teratogenicity Begin? Tim F. Oberlander, University of British Columbia |
| 9:50 AM-10:20 AM | S6 | Messages from the Womb: Maternal Antidepressant Use and Fetal Neurobehavior ME Amy L. Salisbury, Alpert Medical School of Brown University |
| 10:20 AM-10:50 AM | S 7 | An Update on Lithium Treatment during Pregnancy and Lactation Adele C. Viguera, Neurological Institute, Cleveland Clinic |
| 10:50 AM-11:20 AM | S8 | Effects of Developmental Exposure to Methylphenidate on Brain Areas Involved in Cognition, Motivated Behaviors, Appetite and Stress Teresa Ann Milner, Weill Cornell Medical College |
| 11:20 AM-11:45 AM | | Discussion: How Do We Incorporate These Data into Human Risk Assessment? Katherine L. Wisner, University of Pittsburgh Medical Center |

9:15 AM-11:45 AM PLATFORM SESSION II—Marriott Ballroom VII

Mechanisms and Models

Chairpersons: Barbara D. Abbott, U.S. Environmental Protection Agency and Peter G. Wells, University of Toronto

| , , | | |
|-------------------|----|---|
| 9:15 AM-9:30 AM | 9 | Peroxisome Proliferator-Activated Receptor Alpha (PPARγ), Beta (PPARβ), and Gamma (PPARβ) Expression in Human Fetal Tissues Abbott BD. Wood CR, Watkins AM, Das KP, Lau CS. Developmental Biology Branch, Toxicity Assessment Div., NHEERL, U.S. EPA, Research Triangle Park, NC, United States. |
| 9:30 AM-9:45 AM | 10 | Modulation of Adenosine Receptor A ₁ Signaling Results in Inhibition of Calvarial Ossification in Mice <u>Bushdid PB</u> , Gibbard A, Pagana JM, White TE. GlaxoSmithKline, King of Prussia, PA, United States. |
| 9:45 AM-10:00 AM | 11 | Akt1 Mediates Mammary Gland Growth and Development In Vivo <u>LaRocca J</u> , Hixon M. Brown University, Providence, RI, United States. |
| 10:00 AM-10:15 AM | 12 | Role of Mitogen-Activating Protein Kinase Signaling in the Developmental Toxicity of Hydroxyurea <u>Banh S</u> , Hales BF. McGill University, Montreal, QC, Canada. |
| 10:15 AM-10:30 AM | 13 | Ethanol Teratogenesis, Oxidative Stress and Protection by a Free Radical Spin Trapping Agent Miller L¹, Wells PG¹. ¹Department of Pharmacology and Toxicology, University of Toronto, Toronto, ON, Canada, ²Faculty of Pharmacy, University of Toronto, Toronto, ON, Canada. |
| 10:30 AM-10:45 AM | 14 | Advantages and Challenges of Dietary Developmental Toxicity Studies in the Rabbit Rasoulpour RJ, Brooks KJ, Saghir SA, Billington R, Carney EW. The Dow Chemical Company, Midland, MI, United States. |
| 10:45 AM-11:00 AM | 15 | Cigarette Smoke Exposure: Alterations in the Metabolome of the Gravid and Non-Gravid Mouse Uterus Neal RE ^{1,2} , Chen J ¹ , Birtles T ² , Greene RM ² , Pisano MM ² . ¹ EOHS, SPHIS, University of Louisville, Louisville, KY, United States, ² Birth Defects Center, University of Louisville, Louisville, KY, United States. |

Altered Liver Proteome Profiles in a Mouse Model of 11:00 AM-11:15 AM 16 "Developmental" Cigarette Smoke Exposure

<u>Canales L</u>¹, Chen J¹, Birtles T², Greene RM ², Pisano MM², Neal R^{1,2}. ¹University of Louisville, Louisville, KY, United States, ²Birth Defects Research Center, University of Louisville, Louisville, KY, United States.

11:15 AM-11:30 AM Proteome Profiling of Mouse Embryonic Stem Cells to Define Markers for Cell Differentiation and Embryotoxicity

Osman A^{1,2}, van Dartel DAM^{1,2}, Zwart E¹, Blokland M¹, Pennings J¹, Piersma AH^{1,3}. ¹RIVM Lab for Health Protection Research, Bilthoven, Netherlands, ²GRAT-NUTRIM-Maastricht University, Maastricht, Netherlands, ³IRAS-Utrecht University, Utrecht, Netherlands.

11:30 AM-11:45 AM Development of a Computational (In Silico) Model of Ocular

Teratogenesis

Sipes NS¹, Rountree MR¹, Kleinstreuer NC¹, Dix DJ¹, Judson RS¹, Kavlock RJ¹, Swat M⁴, Glazier JA⁴, DeWoskin RS², Singh AV³, Spencer RM³, Knudsen¹. ¹NCCT, ORD, U.S. EPA, Research Triangle Park, NC, United States, ²NCEA, ORD, U.S. EPA, Research Triangle Park, NC, United States, ³Lockheed Martin, Research Triangle Park, NC, United States, ⁴The Biocomplexity Institute, Dept. of Physics, Indiana University, Bloomington, IN, United States.

LUNCH ON YOUR OWN 11:45 AM-1:15 PM

11:45 AM-1:15 PM PAST PRESIDENTS' LUNCHEON (By Invitation Only)—Bluegrass 1 Meeting Room

11:45 AM-12:45 PM WEB SITE COMMITTEE MEETING—Filly Meeting Room

1:15 PM-2:15 PM TS/OTIS JOINT SPECIAL LECTURE—Marriott Ballroom VI

Human Teratogens: Update 2010

Lewis B. Holmes, MassGeneral Hospital for Children

UPDATE ON THALIDOMIDE SYMPOSIUM—Marriott Ballroom VI 2:15 PM-5:00 PM

Chairperson: Lewis B. Holmes, MassGeneral Hospital for Children

2:15 PM-2:20 PM Introduction (ME) Lewis B. Holmes, MassGeneral Hospital for Children

2:20 PM-2:30 PM Thalidomide Epidemic and the Founding of the Teratology

Society (ME

F. Clarke Fraser, McGill University

2:30 PM-3:15 PM Thalidomide Embryopathy: Ophthalmologic Findings and a Few

Surprises (ME)

Marilyn Miller, University of Illinois College of Medicine

3:15 PM-3:30 PM

3:30 PM-4:15 PM **S10** Recent Advances in Understanding the Developmental Basis of

Phocomelia (ME)

Patrick Allard, Harvard Medical School

Lessons Learned from the Thalidomide Epidemic and the Current 4:15 PM-5:00 PM **S11**

Hypotheses of the Possible Mechanisms of Action (ME)

Trent Stephens, Idaho State University

5:00 PM-7:00 PM TS/NBTS/OTIS JOINT POSTER SESSION AND EXHIBITS OPEN—Marriott Ballroom I

Teratology Society Posters: P1-P28A

NBTS Posters: 1-6 OTIS Posters: 1-11

7:30 PM-9:30 PM MARTA STUDENT AND POSTDOCTORAL FELLOW

CAREER EVENT—Bluegrass 1 Meeting Room

Open to TS/NBTS/OTIS Students and Postdoctoral Fellows

| TUESDAY, JUNE 29, 2010 | | | | | | |
|------------------------|--|---------------------------------------|---|--|--|--|
| 7:00 AM-5:00 PM | REGISTRATION—Marriott Ballroom VI Foyer | | | | | |
| 7:00 AM-8:20 AM | SUNRISE MINI COURSE (Separate Registration Required)—Marriott Ballroom VI | | | | | |
| | Imaging Tools for Structural and Functional Teratogenesis Analyses Organized by the Education Committee, Chairperson, Louise M. Winn, Queen's University | | | | | |
| | 7:00 AM-7:40 AM | | Imaging Tools for Structural Analysis William Slikker, Jr., National Center for Toxicological Research, U.S. FDA | | | |
| | 7:40 AM-8:20 AM | | Imaging Tools for Functional Analysis Julia M. Stephen, University of New Mexico | | | |
| 8:00 AM-2:00 PM | EXHIBIT HALL OPEN—M | EXHIBIT HALL OPEN—Marriott Ballroom I | | | | |
| 8:30 AM-9:15 AM | TS/NBTS/OTIS JOINT SPECIAL LECTURE—Marriott Ballroom VI | | | | | |
| | | | : A Good Start Lasts a Lifetime (M) l Institute of Environmental Health Sciences, NIH | | | |
| 9:15 AM-9:30 AM | BREAK | | | | | |
| 9:30 AM-12:00 NOON | MARCH OF DIMES/PUBLIC AFFAIRS COMMITTEE SYMPOSIUM—Marriott Ballroom VI | | | | | |
| | Herbal Supplement Usage during Pregnancy Chairpersons: Patricia M. Bittner, U.S. Consumer Product Safety Commission, Chair, Public Affairs Committee and Richard K. Miller, University of Rochester Medical Center | | | | | |
| | Organized by the Public Affairs | Comn | nittee | | | |
| | 9:30 AM-10:00 AM | S12 | Herbal Usage during Pregnancy: Teratology Society White Paper Richard K. Miller, University of Rochester Medical Center | | | |
| | 10:00 AM-10:30 AM | S13 | Herbal Preparations Usage and Pregnancy Henry M. Hess, University of Rochester Medical Center | | | |
| | 10:30 AM-11:00 AM | S14 | Herbal Products: Are They What They Claim to Be? William R. Obermeyer, ConsumerLab.com | | | |
| | 11:00 AM-11:10 AM | S 15 | Herbal Drugs in Pregnancy: A Canadian Perspective Gideon Koren, The Hospital for Sick Children | | | |
| | 11:10 AM-11:20 AM | S16 | Traditional Chinese Medicine: Herbal Medicine Origins and Utilization in China (ME) Robert L. Brent, Alfred I. duPont Hospital for Children | | | |
| | 11:20 AM-11:30 AM | S17 | Herbal Preparations: Are We at the Beginning of Regulations? The Situation in Europe and the Eastern Mediterranean Region Asher Ornoy, Hebrew University Hadassah Medical School and Israeli Ministry of Health | | | |
| | 11:30 AM-12:00 NOON | | Panel Discussion of Position Paper and Topic Patricia M. Bittner, U.S. Consumer Product Safety Commission, Chair, Public Affairs Committee | | | |

Public Affairs Committee

9:30 AM-12:00 NOON TS/NBTS JOINT SYMPOSIUM—Marriott Ballroom VII

Advancing Neurodevelopmental Evaluation in Children: An Interdisciplinary Approach

Chairperson: Susan Makris, U.S. Environmental Protection Agency and William Slikker, Jr., National Center for Toxicological Research, U.S. FDA

9:30 AM-9:55 AM S18 The Use of Neurodevelopmental Data in Children for Risk Assessment of Environmental Chemicals

Susan Makris, U.S. Environmental Protection Agency

9:55 AM-10:20 AM S19 A Multidisciplinary Approach to Advancing the Science of

Neurodevelopmental Testing in Cohorts of Infants and Young Children

Judy S. LaKind, LaKind Associates, LLC

10:20 AM-10:45 AM S20 Getting the Biggest Bang for Your Buck: Choosing

Neurodevelopmental Tests That Maximize Power

Lauren Kenworthy, George Washington University School of Medicine

10:45 AM-11:10 AM S21 Threats to Study Validity: The Flynn Effect, Examiner Drift,

Confounders, Lost in Translation, and Other Important

Considerations
Laura Gutermuth Anthony, George Washington University School of

Medicine

11:10 AM-11:35 AM S22 Weight-of-the-Evidence Assessment in Neurodevelopmental

Epidemiology: A Plea for Consistency

Michael Goodman, Emory University

11:35 AM-12:00 NOON Panel Discussion (ME)

12:00 NOON-2:00 PM TS/NBTS JOINT POSTER SESSION AND EXHIBITS OPEN-Marriott Ballroom I

Teratology Society Posters: P29-P58

NBTS Posters: 7-11

2:00 PM-4:30 PM PLATFORM SESSION III—Marriott Ballroom VI

Hazard Assessment and Screening

Chairpersons: Michael G. Narotsky, U.S. Environmental Protection Agency and Rochelle W. Tyl, RTI International

2:00 PM-2:15 PM 19 Effects of *In Utero* Exposure to Mono-2-ethylhexylphthalate (MEHP)

on the Adult Female Mouse

<u>Moyer BJ</u>, Hixon ML. Brown University, Providence, RI, United States.

2:15 PM-2:30 PM

20 Micro-CT and Alizarin Red Evaluations of Fetal Rat and Rabbit

PM-2:30 PM 20 Micro-CT and Alizarin Red Evaluations of Fetal Rat and Rabbit Skeletal Abnormalities Induced by All-Trans-Retinoic Acid

<u>Wise LD</u>¹, Xue D², Winkelmann CT², ¹Toxicological Sciences, Merck Research Laboratories, West Point, PA, United States, ²Imaging

Research Laboratories, West Point, PA, United States, 'Imaging Department, Merck Research Laboratories, West Point, PA, United States.

2:30 PM-2:45 PM 21 Effects of Bisphenol A and Diethylstilbestrol on the Adult Male

Reproductive System Following Oral Administration to Pregnant C57BL6 Mice on Gestational Days 10 through 16

<u>Hixon ML</u>, LaRocca J, Boyajian A, Brown C, Duncan Smith S. Brown University, Providence, RI, United States.

2:45 PM-3:00 PM 22 Gonadal Responses to Vinclozolin Administered Orally to Han

Wistar Rats

<u>Tyl RW</u>¹, Seely JC², Marr MC¹, Myers CB¹, Youn VY¹, Browning DB¹, Bishop JB³, ¹RTI International, Research Triangle Park, NC, United States, ²Experimental Pathology Laboratories, Inc., Research Triangle Park, NC, United States, ³National Toxicology Program/NIEHS/NIH, Research

Triangle Park, NC, United States.

3:00 PM-3:15 PM Break

3:15 PM-3:30 PM 23 Maternal Diet Modulates the Rate of Neural Tube Defects in Diabetic Pregnancies

<u>Kappen C</u>, Kruger C, MacGowan J, Salbaum JM. Pennington Biomedical Research Center, Baton Rouge, LA, United States.

3:30 PM-3:45 PM

Mammary Gland Development As a Sensitive Indicator of Early Life Exposures: Recommendations from an Interdisciplinary Workshop Fenton SE¹, Rudel RA², <u>Euling SY²</u>, Makris SL³. ¹National Institute of Environmental Health Sciences, National Toxicology Program, Research Triangle Park, NC, United States, ²Silent Spring Institute, Newton, MA, United States, ³NCEA, U.S. EPA, Washington, DC, United States.

3:45 PM-4:00 PM

Assessment of Reproductive and Developmental Toxicity of Mixtures of Regulated Drinking Water Chlorination By-Products in a Multigenerational Rat Bioassay

Narotsky MG¹, Klinefelter GR¹, Goldman JM¹, Strader LF¹, Suarez JD¹, Pressman JG², Miltner RJ², Speth T², Teuschler LK³, Rice GE³, Richardson SD⁴, Best DS¹, McDonald A¹, Murr AS¹, Hunter ES¹, Simmons JE¹.

¹National Health and Environmental Effects Research Laboratory, ORD, U.S. EPA, Research Triangle Park, NC, United States, ²National Risk Management Research Laboratory, ORD, U.S. EPA, Cincinnati, OH, United States, ³National Center for Environmental Assessment, ORD, U.S. EPA, Cincinnati, OH, United States, ⁴National Exposure Research Laboratory, ORD, U.S. EPA, Athens, GA, United States.

4:00 PM-4:15 PM

A Fishy Solution to Reproductive Toxicity Screening or Just a Red Herring? Zebrafish in Developmental Toxicity: Value within Pharmaceutical Development

<u>Van den Bulck K</u>¹, Hill A², Jones M², Dodd A², Mesens N¹, Bailey GP¹, De Schaepdrijver L¹, Lammens L¹. ¹Johnson & Johnson Pharmaceutical Research & Development, Beerse, Belgium, ²Evotec AG, Hamburg, Germany.

4:15 PM-4:30 PM

Establishment of a Statistical Prediction Model and Abbreviated Assay Design for Teratogenicity Screening of Compounds Using Rat Whole Embryo Culture

<u>Zhang CXZ</u>, Cao JC, Panzica-Kelly JPK, Stock DS, Augustine-Rauch KAA. Bristol Myers Squibb, Pennington, NJ, United States.

2:00 PM-4:15 PM TS/OTIS JOINT PLATFORM SESSION IV—Marriott Ballroom IX

Common Conditions in Pregnancy: Treatment of Mental Health and Asthma

Chairpersons: Ludmila Bakhireva, University of New Mexico and Myla Moretti, The Hospital For Sick Children

2:00 PM-2:15 PM

Patterns of Psychotropic Drug Use in Pregnancy and Lactation: The MotherSafe Experience 2000–2007

Eamus M¹, Oei J¹², Hill M³, Taylor T³, <u>Kennedy D</u>¹³. ¹School of Women's and Children's Health, University of NSW, Kensington, NSW, Australia, ²Dept. of Neonatology, Royal Hospital for Women, Randwick, NSW, Australia, ³MotherSafe, Royal Hospital for Women, Randwick, NSW, Australia.

2:15 PM-2:30 PM

29 Birth Defects, Preterm Birth and Intrauterine Growth in the Offspring of Women Prescribed Citalopram during Pregnancy

Colvin L^{1,2}, Slack-Smith L², Stanley FJ¹, Bower C¹. ¹Centre for Child Health Research, Telethon Institute for Child Health Research, The University of Western Australia, West Perth, Australia, ²School of Dentistry, The University of Western Australia, West Perth, Austria.

2:30 PM-2:45 PM

The Safety of Escitalopram in Pregnancy: A Prospective Cohort Study Klieger-Grossmann C¹, Weitzner B¹, Einarson T², Koren G¹, Einarson A¹.

¹The Motherisk Program, Division of Clinical Pharmacology and Toxicology, Department of Pediatrics, The Hospital for Sick Children, University of Toronto, Toronto, ON, Canada, ²Faculty of Pharmacy, University of Toronto, Toronto, ON, Canada.

2:45 PM-3:00 PM 31 Neurodevelopment of Children Exposed In Utero to Venlafaxine: **Preliminary Results**

<u>Nulman I^{1,2}</u>, Barrera M^{1,2}, Pulver A¹, Streiner D^{2,3}, Feldman B^{1,2}, Koren G^{1,2}. ¹The Hospital for Sick Children, Toronto, ON, Canada, ²The University of Toronto, Toronto, ON, Canada, ³Baycrest Centre, Toronto, ON, Canada.

3:00 PM-3:15 PM Break

3:15 PM-3:30 PM 32 Impact of Changing the Dose of Inhaled Corticosteroids during Pregnancy on the Risk of Maternal Asthma Exacerbations

Blais L^{1,2}, Kettani F², Ducharme FM³, Lemière C^{1,2}, Beauchesne M-F¹, Bérard A¹. ¹Université de Montréal, Montréal, QC, Canada, ²Hôpital du Sacré-Coeur de Montréal, Montréal, QC, Canada, ³CHU Ste-Justine, Montréal, QC, Canada.

Congenital Anomalies in Asthmatic Women Using Corticosteroids 3:30 PM-3:45 PM 33

during Pregnancy: A Meta Analysis from Published Data Namazy IA¹, Murphy VE^{2,3}, Powell H^{2,4}, Gibson PG^{2,4}, Chambers CD⁵, Schatz M⁶. ¹Scripps Clinic, San Diego, CA, United States, ²University of Newcastle, Newcastle, NSW, Australia, ³Hunter Medical Research Institute, Newcastle, NSW, Australia, ⁴John Hunter Hospital, Newcastle, NSW, Australia, ⁵University of California San Diego, La Jolla, CA, United States, ⁶Kaiser Permanente Medical Center, San Diego, CA, United States.

3:45 PM-4:00 PM Risk of Perinatal Mortality Associated with the Use of Inhaled 34

Corticosteroids for the Treatment of Asthma during Pregnancy Breton MCB¹, Beauchesne MFB^{1,2}, Lemière CL², Rey ER³, Amélie AF², Blais LB^{1,2}. ¹Universite de Montreal, Montreal, QC, Canada, ²Research Center, Hôpital du Sacré-Cœur de Montréal, Montreal, QC, Canada, ³Obstetric and Gynecology Department, CHU Ste-Justine, Montreal, QC,

4:00 PM-4:15 PM Perception of Teratogenicity among Pregnant Women with Asthma or Diabetes Mellitus

Sarangarm P1, Liu S1, Young BN1, Phelan ST2, Nawarskas J1, Rayburn WF², Bakhireva LN¹. ¹University of New Mexico, College of Pharmacy, Albuquerque, NM, United States, ²University of New Mexico, Department of Obstetrics and Gynecology, Albuquerque, NM, United States.

50TH ANNIVERSARY MEETING CELEBRATION—Marriott Ballroom VI 4:45 PM-6:30 PM

Chairpersons: Barbara F. Hales, McGill University and John M. Rogers, U.S. Environmental Protection Agency Organized by the 50th Anniversary Planning Committee

| 4:45 PM-4:50 PM | | Introduction John M. Rogers, U.S. Environmental Protection Agency |
|-----------------|-----|--|
| 4:50 PM-5:10 PM | S23 | Josef Warkany: Then and Now Wladimir Wertelecki, University of South Alabama |
| 5:10 PM-5:30 PM | S24 | James G. Wilson, Embryologist, Teratologist, Founding Member of the Teratology Society, Superb Researcher, Teacher and Human Being Robert L. Brent, Alfred I. duPont Hospital for Children |
| 5:30 PM-5:45 PM | | Distinguished Service Award Presented by Barbara F. Hales, McGill University and Terence R.S. Ozolins, Queen's University |
| 5:45 PM-6:00 PM | | Students' Viewpoints on the Future of the Teratology Society |
| 6:00 PM-6:30 PM | | Let's Play Jeopardy! History of the Teratology Society |

WEDNESDAY, JUNE 30, 2010

6:30 AM-7:30 AM TERATOLOGY SOCIETY XXIX ANNUAL VOLLEYBALL GAME—Baxter Jack's Volleyball Club

7:00 AM-8:00 AM PUBLIC AFFAIRS COMMITTEE MEETING—Skybox Meeting Room

7:00 AM-8:00 AM STUDENT AFFAIRS COMMITTEE MEETING—Filly Meeting Room

8:00 AM-2:00 PM REGISTRATION—Marriott Ballroom VI Foyer

8:00 AM-10:30 AM PLATFORM SESSION V-Marriott Ballroom IX

Epidemiology and Clinical Studies

Chairpersons: Sonja A. Rasmussen, Centers for Disease Control and Prevention and Robert Felix, University of California, San Diego

8:00 AM–8:15 AM

36 Maternal Exposure to Venlafaxine and Risk for Birth Defects

Duwe K¹, Rasmussen S¹, Louik C², Colarusso T¹, Reefhuis J¹. ¹NCBDDD,

CDC, Atlanta, GA, United States, ²Slone Epidemiology Center, BU, Boston,

MA, United States.

8:15 AM-8:30 AM 37 Maternal Occupational Exposure to Organic Solvents and Congenital Heart Defects: Results from the National Birth Defects Prevention Study, 1997-2002

Gilboa SM¹, Correa A¹, Desrosiers T², Lupo P³, Lawson C⁴, Riehle-Colarusso T¹, Stewart P⁵, van Winjgaarden E⁶. ¹National Center on Birth Defects and Developmental Disabilities, CDC, Atlanta, GA, United States, ²North Carolina Birth Defects Monitoring Program, Raleigh, NC, United States, ³University of Texas Health Sciences Center, Houston, TX, United States, ⁴National Institute for Occupational Safety and Health, CDC, Cincinnati, OH, United States, ⁵Stenzel Exposure Assessments, LLC, Arlington, VA, United States, ⁵University of Rochester, Rochester, NY, United States.

8:30 AM-8:45 AM 38 No Effect of Perchlorate on Serum Thyroxine for Pregnant Women with Low Urine Iodine

Lamm SH^{1,2}, Robbins S¹, Lu J⁴, Chen R³, Hollowell JG⁵. ¹CEOH, LLC., Washington, DC, United States, ²Johns-Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, ³Georgetown University, Washington, DC, United States, ⁴American University, Washington, DC, United States, ⁵University of Kansas, Kansas City, KS, United States.

8:45 AM-9:00 AM 39 Genital Tract Infections during Pregnancy and the Risk of Selected Birth Defects

Carter TC', Olney RS², Mitchell AA³, Romitti PA⁴, Bell EM⁵, Druschel CM⁶, ¹National Institute of Child Health and Human Development, NIH, Bethesda, MD, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Slone Epidemiology Unit, Boston University, Boston, MA, United States, ⁴University of Iowa, Iowa City, IA, United States, ⁵State University of New York at Albany, Albany, NY, United States, ⁵New York State Department of Health, Albany, NY, United States.

9:00 AM-9:15 AM 40 Maternal Plasma Folate, Dihydrofolate Reductase Genotype and Risk of Isolated Cleft Lip with or without Cleft Palate: Findings from a Population-Based Study

Munger RG¹, Mansilla MA³, Tamura T⁴, Feldkamp M², Johnson K⁴, Botto LD², Murray JC³. ¹Utah State University, Logan, UT, United States, ²University of Utah, Salt Lake City, UT, United States, ³University of Iowa, Iowa City, IA, United States, ⁴University of Alabama-Birmingham, Birmingham, AL, United States.

Birth Defects Research (Part A) 88:287–449 (2010)

9:15 AM-9:30 AM 41 An Electronic Medical Record (EMR) System-Based Referral Facilitating Access to Teratogen Risk Counseling for Health Care

Providers and Their Patients

<u>Felix R</u>¹, Chambers CD^{1,2}, Cobian V¹, Prince L¹, Kao K¹, Alvarado S¹, Jones KL¹. ¹University of California, San Diego, Department of Pediatrics, La Jolla, CA, United States, ²University of California, San Diego, Department of Family and Preventative Medicine, La Jolla, CA, United States.

9:30 AM-9:45 AM 42 The Contribution of Chromosomal Abnormalities to Congenital Heart Defects: A Population-Based Study

Hartman RJ^{1,2}, Rasmussen SA¹, Riehle-Colarusso T¹, Botto L³, Correa A¹.
¹National Center on Birth Defects and Developmental Disabilities, CDC, Atlanta, GA, United States, ²Oak Ridge Institute for Science and Education, Oak Ridge, TN, United States, ³Division of Medical Genetics, University of Utah, Salt Lake City, UT, United States.

9:45 AM-10:00 AM 43 Thalidomide Embryopathy Mimics Idiopathic Congenital Vascular and Skeletal Dysmorphologies

Hootnick DR. Upstate Medical University, Syracuse, NY, United States.

10:00 AM-10:15 AM 44 Factors Associated with the Occurrence of Vascular Disruption
Defects and Their Relationship with Heavy Metals: Case-Control
Study in Cali, Colombia (South America) 2007-2009

<u>Pachajoa H</u>, Ariza Y, Suarez M, Aguilar C, Isaza C, Méndez F. Universidad del Valle, Cali, Colombia.

10:15 AM–10:30 AM 45 Maternal Dietary Fat Intake As a Potentially Preventable Cause of Gastroschisis

<u>Iones KL</u>¹, Hagey LR², Gonzalez V¹, Benirschke K³, Chambers CD^{1,4}.

¹University of California, San Diego, Department of Pediatrics, La Jolla, CA, United States, ²University of California, San Diego, Department of Internal Medicine, La Jolla, CA, United States, ³University of California, San Diego, Department of Pathology, La Jolla, CA, United States, ⁴University of California, San Diego, Department of Family and Preventative Medicine, La Jolla, CA, United States.

8:00 AM-10:30 AM WILEY-BLACKWELL SYMPOSIUM—Marriott Ballroom VI

Teratology Society: 50 Years Then to Now

Organized by the Publications Committee

Chairperson: Michael A. Schellpfeffer, Medical College of Wisconsin

8:00 AM-8:30 AM S24 A Personal Perspective of Historical Events That Affected the Development and Maturation of the Society in the Past

50 Years ME

Robert L. Brent, Alfred I. duPont Hospital for Children

8:30 AM-9:15 AM S25 Clinical Teratology Kenneth Lyons Jones, CTIS

9:15 AM-10:00 AM S26 Experimental Teratology: Scenes from the Last Fifty Years William J. Scott, Jr., Cincinnati Children's Hospital Medical Center

within j. ocoli, ji., Citetinian Charles Hospitai Medica Cen

10:00 AM-10:30 AM S27 Fast Forward to the Future: Where Will We Be?

Barbara F. Hales, McGill University

10:30 AM-11:00 AM WARKANY TEA

11:00 AM-12:00 NOON TS/NBTS JOINT UPDATE ON THE NATIONAL CHILDREN'S STUDY/PANEL—Marriott Ballroom VI

Chairperson: Elaine M. Faustman, University of Washington

12:00 NOON-1:30 PM LUNCH ON YOUR OWN

12:30 PM-1:30 PM EDUCATION COMMITTEE MEETING—Filly Meeting Room

12:30 PM-1:30 PM MEMBERSHIP COMMITTEE—Thoroughbred Meeting Room

1:30 PM-4:30 PM ILSI HESI SYMPOSIUM—Marriott Ballroom VI

21st Century Developmental Toxicology

Chairpersons: Edward W. Carney, The Dow Chemical Company and

George P. Daston, Procter & Gamble Company

1:30 PM-1:35 PM Introduction

George P. Daston, Procter & Gamble Company

1:35 PM-2:00 PM S28 Of Babies and Their Bathwater: Strengths to Maintain and

Limitations to Overcome in Transitioning Developmental Toxicology

to Meet 21st Century Needs

Edward W. Carney, The Dow Chemical Company

2:00 PM-2:30 PM S29 Exposure Assessment in the 21st Century: Increased Reliance

on Biomonitoring *Sean Hays, Summit Toxicology*

2:30 PM-2:45 PM Break

2:45 PM-3:15 PM S30 Pathway Profiling and Tissue Modeling Using ToxCast™ HTS

Data CME

Thomas B. Knudsen, National Center for Computational Toxicology

3:15 PM-3:45 PM S31 Computational Toxicology: From Data to Analyses

to Applications (ME)

Ivan Rusyn, University of North Carolina at Chapel Hill

3:45 PM-4:30 PM S32 Future Strategies for Developmental Toxicity

Safety Assessment MB

Thomas Hartung, Johns Hopkins University Center for Alternatives to

Animal Testing

4:30 PM-6:00 PM BUSINESS MEETING AND REPORTS FROM BDR EDITORS—Marriott Ballroom VI

6:30 PM-7:30 PM BANQUET RECEPTION—Marriott Ballroom Foyer

7:30 PM-10:00 PM BANQUET—Marriott Ballroom I

Travel Awards

James C. Bradford Memorial Student Poster Award

Wilson Presentation Awards Marie Taubeneck Award

THURSDAY, JULY 1, 2010

7:00 AM-10:00 AM COUNCIL II MEETING—Skybox Meeting Room