

# HONOR SEMINARS

of  
Metropolitan  
Dayton

**2006 - 2007  
Forty Fifth  
Annual Report**

***Honor Seminars  
Of  
Metropolitan Dayton, Inc.***

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Annual Report***

***2006 – 2007***

Honor Seminars of Metropolitan Dayton, Inc.  
140 East Monument Avenue

Dayton, OH 45402

## **FOREWORD**

The Honor Seminars of Metropolitan Dayton was organized in 1962 as a non-profit corporation having as its goal the function of providing for outstanding area high school students the opportunity to learn from and interact with highly qualified professional people from the greater Dayton area. To accomplish this goal, two separate seminar programs are established each year for selected juniors and seniors as an extracurricular activity. Effective use of the community resources is thereby utilized to develop the student who has demonstrated the desire and ability for high achievement. These seminars have been directed toward the understanding and appreciation of advances in modern sciences, technologies, and the humanities. They are meant to provide enrichment to the students' background, to aid in the development of independent thinking and the stimulation of individual creativity, and to lend assistance in defining personal career objectives. This annual report represents completion of 45 years of service to the community.

In 1973, the Honor Seminars of Metropolitan Dayton, Inc. joined the Affiliate Societies Council of the Engineering and Science Foundation of Dayton to provide Honor Seminars with a permanent headquarters address.

Seminar programs in recent years have been directed toward increased participation of the students and have emphasized discussions of the topics with seminar leaders. This mode of operation has helped to make the contents of the seminars meaningful to the students and to satisfy their intellectual curiosities. Many of the seminars are conducted within the working environments of the individual seminar leaders, permitting them to use a variety of demonstration materials pertinent to their profession and permitting the students to acquire deeper insights into the functions performed by these professionals in today's society. Honor Seminars is an educational program established in the spirit of voluntary participation. All operations of the program are conducted without compensation or honoraria for the service of the individuals. The continued success of the Honor Seminars program is the direct result of the strength of the seminar leaders who constitute the faculty and the foresight of the officers and members of the Board of Directors. These professional individuals give gladly of their time and efforts to bring their knowledge and experience in a wide variety of fields. Their individual contributions are pointed out in this annual report of the activities for 2006-2007. Students of exceptional ability and promise are selected on an impartial basis from the public and private schools of the greater Dayton metropolitan area. The Principals and Counselors of these schools prior to the student's junior year provide nominations of candidates. An experienced Admissions Committee determines the selection of students from those nominated by the participating schools. Those students who displayed and maintained through their weekly attendance the very highest level of interest, initiative, talent, and scholarly activity are listed in this report of activities.

This year, as in the past, the program for the junior students was directed toward the basic sciences and mathematics in preparation for the senior program. Building on the junior year base, the senior program involves more applications technology and provides the senior students with opportunities to gain insight into work being performed at the leading edge of scientific endeavor.

The Honor Seminars of Metropolitan Dayton, Inc., serves a unique and fundamental need for the Montgomery-Greene County community. The cooperation and backing of the companies and institutions with which the seminar leaders and board members are affiliated have been substantial. The generous financial support provided by the many participating organizations in this community is appreciated and indicative of their desire to maintain this exceptional opportunity for our outstanding high school students. The Dayton Area Chamber of Commerce recognizes The Honor Seminars of Metropolitan Dayton, Inc., as an ongoing benefit to the community which merits contributory support from sponsoring organizations.

**Senior Participants 2006 – 2007**

**Beavercreek High School**

**Deepika L. Chona** 3848 Oakview Dr.  
Beavercreek, OH 45434

**Shyma S. Ramalingam** 721 Farmbrook Dr.  
Beavercreek, OH 45434

**Jake A. Connors** 1199 Whitetail Dr.  
Fairborn, OH 45324

**Laura A. Chachula** 2261 Hunters Ridge Blvd.  
Beavercreek, OH 45434

**Joy V. Von Holle** 2390 Clubside Dr.  
Beavercreek, OH 45434

**Brookville**

**Bryan J. Martin** 10209 Westbrook Rd  
Brookville OH 45309

**Anthony S. Ewers** 421 S. Wolfcreek Pike  
Brookville OH 45309

**Bellbrook High School**

**Christina M. Elias** 3797 Fernwood Ct.  
Dayton, OH 45440

**Carroll High School**

**Kevin A. Pitstick** 1792 Union Rd  
Xenia, OH 45385

**Spring Valley Academy**

**Sarah A. Diaz-Vazquez** 496 Carter's Grove Rd.  
Centerville, OH 45459

**Centerville High School**

**Andrew R. Gruenzel** 6777 Winding Cove  
Centerville, OH 45459

**Zachary S. Heck** 1935 Rustling Oak Ct.  
Centerville, OH 45459

**Chaminade-Julienne**

**Meghan M. Phillips** 3518 High Point Court  
Beavercreek, OH 45440

**Fairborn High School**

**Alyssa V. Bates**

538 Daytonia Ave.  
Fairborn, OH 45324

**Miamisburg High School**

**James J. Fontaine**

9714 Pellston Way  
Miamisburg, OH 45342

**Katie N. Litmer**

1049 Decker Rd.  
Miamisburg, OH 45342

**Miami Valley School**

**Megan E. Caughey**

361 Rue Marsaille  
Dayton, OH 45429

**Ravi K. Grandhi**

10275 Cherry Tree Terrace  
Dayton, OH 45458

**Eric J. Reed**

525 Ridgewood Ave.  
Dayton, OH 45409

**Sarah M. Jacobs**

616 Murrell Dr.  
Dayton, OH 45429

**Northmont High School**

**Jacob C. Heinrichs**

4874 Phillipsburg Rd., P.O. Box 132  
Clayton, OH 45315

**Oakwood High School**

**Colleen P. Judge**

108 Lonsdale Ave.  
Dayton, OH 45419

**Valley View High School**

**Mitchell T. Westwood**

1954 Bull Rd  
Farmersville, OH 45325

**Vandalia Butler High School**

**Krishna N. Patel**

451 Timberwind Lane  
Vandalia, OH 45377

**Jonathan J. Blaza**

7045 Meeker Commons Lane  
Dayton, OH 45414

**West Carrollton**

**Dylan J. Petonke**

2601 Rhapsody  
Dayton, OH 45449

## **Seminars of the Senior Participants**

<b>Dr. Donald Geiger</b> UD – Physics	<b><i>Photosynthesis and Global Climate Change</i></b>
<b>Dean Bor Jang</b> WSU – Dean, Engineering	<b><i>Patents and Patent Applications</i></b>
<b>Dr Andrew Junker</b> BAT	<b><i>Cyberlink - Brainfingers</i></b>
<b>Dr James Swaney (Ret)</b> WSU - Economics	<b><i>Economics and the Earth</i></b>
<b>Dr Ronald Tuttle</b> AFIT - Physics	<b><i>The Intelligence Cycle</i></b>
<b>Dr Sarah Tebbens</b> WSU - Physics	<b><i>Natural Disasters</i></b>
<b>Maestro Neal Gittleman</b> Dayton Philharmonic Orchestra	<b><i>Behind Scenes at DPO</i></b>
<b>Prof Dan Voss</b> WSU - Assoc Dean, Science/Math	<b><i>Statistics: Precision Guesswork</i></b>
<b>Judge Walter Rice</b> S. Ohio District	<b><i>Federal Justice System</i></b>
<b>Dr James Davis</b> Coroner	<b><i>Modern Advances in Forensics</i></b>
<b>Dr Lowell Eicher</b> Private Practice	<b><i>Practical Aspects of Vision</i></b>
<b>Dr Donald Polzella</b> UD - Psychology	<b><i>Psychology of the Arts</i></b>
<b>Ms. Cheri Adams</b> Boonshoft Museum	<b><i>Explorers of Mauna Kea</i></b>
<b>Dr, David Herrelko</b> UD - Director, New Engineer Pgm.	<b><i>Emerging Technologies/Appropriate Technologies for Developing Regions</i></b>
<b>Dr Marilyn Fisher</b> UD - Philosophy	<b><i>Jane Adams: Cosmopolitanism and Peace</i></b>
<b>Dr Stephanie Smith</b> WSU – Biology	<b><i>How Microbes Eat Pollutants</i></b>
<b>Dr Mitch Wolf</b>	<b><i>Future Aerospace Systems</i></b>

WSU - Mechanical Engineering

**Dr David Weeks**

AFIT - Physics

**Dr Awad Halabi**

WSU - History

**Dr Richard Raines**

AFIT - Computer & Electrical  
Engineering

**Dr. Madhavi Kadaki**

WSU - Biology

**Prof Peter Torvik (Ret)**

AFIT - Aeronautics

***Physics of Chemical Reactions***

***Mid-East History***

***Computer Information Security***

***DNA Microarray Technology***

***Engineering Disasters and Engineering  
Ethics***

**Junior Participants 2006 – 2007**

**Alter High School**

**John R. Kroger** 62 Bizzell Ave  
Dayton 45459

**Craig M. Hoying** 501 North Claridge Dr.  
Kettering 45429

**Ramsey Z. Hidmi** 4959 Walnut Walk  
Kettering 45429

**Bellbrook High School**

**Paul M. Cary** 4350 Toll Gate Lane  
Bellbrook 45305

**Manik Bhat** 4159 Sugarleaf Dr.  
Dayton 45440

**Alexander E. Wilson** 2668 River Bluff Dr  
Spring Valley 45370

**Thomas M. Kaffenberger** 3286 Sears Rd.  
Spring Valley 45370

**Brookville**

**Kevin S. Rutherford** 10220 Amity Rd.  
Brookville 45309

**Megan E. Norbury** 4966 Preble County Line Rd.  
Brookville 45309

**Brandon S. Myers** 9331 Pleasant Plain Rd.  
Brookville 45309

**Laura M. Bendula** 8752 Pleasant Plain Rd.  
Brookville 45309

**Carroll High School**

**Jonathon M. McArdle** 1788 Grand Portage Trail  
Xenia 45385

**Travis A. Busbee** 3858 Walnut Grove Lane  
Beavercreek 45440

**John E. Minardi** 3752 Silver Leaf Drive  
Beavercreek 45430

**John L. Luckoski** 3845 S. Ashleaf Lane  
Beavercreek 45440

***Benjamin L. Heider***

743 Woodsprings Ct.  
Beavercreek 45430

***Victor J. Zimmer***

2930 Shinicocks Lane Apt. H  
Fairborn 45324

***Matthew E. Kowal***

234 Shelford Way  
Beavercreek 45440

***Centerville High School***

***Eric A. Duritsch***

7418 Cheshire Rd.  
Dayton 45459

***Zoe C. Hesp***

1075 Ambridge Rd.  
Dayton 45459

***SoRi K. Jang***

514 Stonington Circle  
Dayton 45458

***Jordan M. Shrader***

9171 North Creek Lane  
Dayton 45458

***Fairborn High School***

***Patricia A. Broderick***

49 Thorton Dr.  
Fairborn 45324

***Angela D. Thompson***

262 Forest St.  
Fairborn 45324

***Kristain M. Rigney***

3624 Winterwood Dr.  
Dayton 45424

***Kettering-Fairmont High School***

***Dustin P. Duvall***

3616 Blossom Heath Rd.  
Kettering 45419

***Daniel E. Watson***

4400 Fernmont St.  
Kettering 45440

***Cory A. Linton***

3427 Valleywood Dr.  
Kettering 45429

***Miamisburg High School***

***Jennifer T. Grilliot***

415 S. Fourth St.  
Miamisburg 45342

***Oakwood High School***

***Ashley E. Lynn***

647 Woods Rd.  
Dayton 45419

***Erin E. Miller***

109 Oakwood Ave.  
Dayton 45409

**Vandalia Butler High School**

**Michael B. Garison**

1110 Wilhelmina Dr.  
Vandalia 45377

**James E. Elliott**

120 Timberwind Lane  
Vandalia 45377

**Abigail T. Lang**

7540 Dog Leg Rd.  
Dayton 45414

**Stephanie M. Fox**

4651 Old Springfield Rd.  
Vandalia 45377

## **Seminars of the Junior Participants**

**Dr. Shuang-Ye Wu**

UD - Geology

***Climate Change***

**Prof. Rebecca Blust**

UD - Engineering Technology

***Lean Manufacturing***

**Dr. Chuck Ebeling**

UD - Engineering Management

***Probability and Statistics***

**Dr. Kelly Kissock**

UD - Mechanical Engineering

***Sustainability***

**Dr. Erin Shiner**

UD - Counseling Center

***Mental Health***

**Dr. Bob Brecha**

UD - Physics

***Peak Oil***

**Dr. Danny Eylon**

UD - Materials Engineering

***Materials from the Caveman to the  
Internet Man***

**Dr. Donna Summers**

UD - Engineering Technology

***Quality Control in Engineering***

**Dr. Joseph Haus**

UD - Electro-Optics

***Photonic Metamaterials***

**Dr. Doug Hansen**

UD Research Institute

***Environmentally Friendly  
Adhesives and Coatings***

**Dr. Aaron Altman**

UD - Aerospace Engineering

***Aerospace***

**Dr. Matthew Kabrisky (Emeritus)**

AFIT – Electrical Engineering

***Information Processing Mechanism  
in the Brain***

**Dr. Crassia Krane**

UD - Biology

***Genetic Science***

**Dr. Manoocher Zoghi**

UD - Civil Engineering

***Civil Infrastructure***

**Dr. Don Klosterman**

UD Research Institute

***Nanotechnology***

**Dr. Laura Kiddon**

Miami Regional Crime Lab

***Forensics***

**Dr. Denise Taylor**  
UD - Environmental Engineering

**Dr. Mark Nielsen**  
UD - Biology

**Dr. Leno Pedrotti**  
UD - Physics

**Prof. Mark Patterson**  
UD - Engineering Technology

**Prof Damon Sink**  
UD - Music

***Waste/Waste Water Treatment***

***Intelligent Design versus Evolution***

***Relativity and Quantum Mechanics***

***Rapid Prototyping***

***Music and Technology***

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<b>Dr. Robert A. Calico</b> <b>AF Institute of Technology</b>	<b>Community Relations</b>

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Dr. Bor Jang	<i>Wright State U.</i>
Dr. Matthew Kabrisky	<i>AF Institute of Technology (Prof. Emeritus)</i>
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Mr. Richard Wells	<i>Delphi Chassis Systems</i>
Dr. P. Kelly Williams	<i>U. of Dayton</i>

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Mr. R. Max Peterson	<i>Attitude/Motivational Consultants</i>

## **CONTRIBUTORS**

Companies and individuals throughout the Greater Dayton Area provide generous support to the Honor Seminars of Metropolitan Dayton, Incorporated. Several of the donors wish to remain anonymous. Following is a list of those donors, which have given their permission to be listed in this report, many have donated anonymously.

**Rich and Suzy Bendula**

**David and Patti Hesp**

**Gary and Francie Kowal**

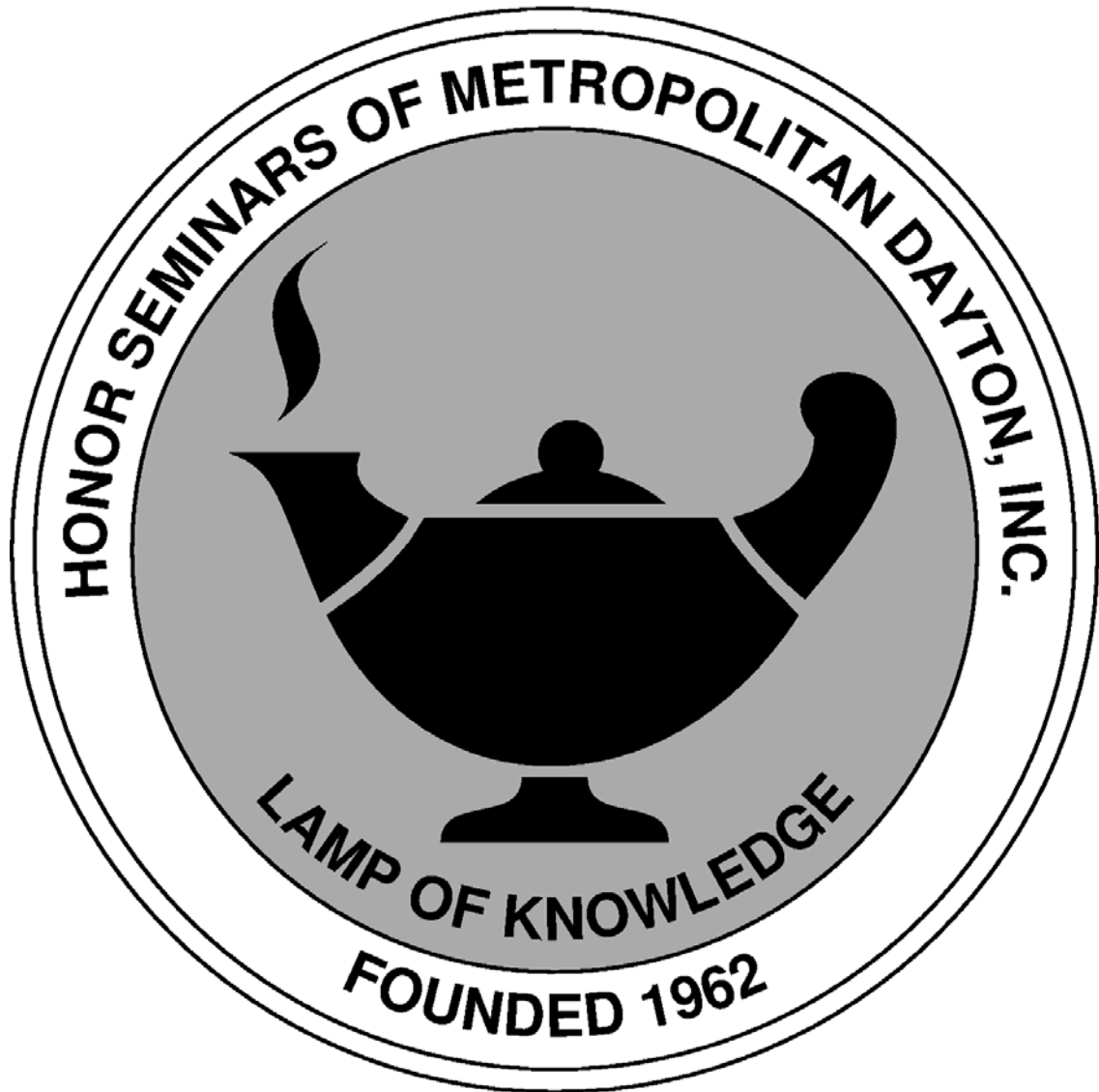
**Mr. and Mrs. Gerald Lang**

**Michael and Julie McArdle**

**Kent and Phyllis Miller**

**Jeff Shrader**

**Elizabeth Wilson**



*The ancient Greek art in our corporate logo is known as the "Lamp of Knowledge" which is symbolic of the major goal of Honor Seminars. It represents the academic achievement and dedication of self-improvement through life long learning. Thus, it is appropriate to encompass this art within our corporate logo.*

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Dayton, Ohio 45402