

Love is in the Air

BY FLOODING APPLE ORCHARDS WITH THE SCENT OF
 SEXY FEMALE CODLING MOTHS, MAES RESEARCHERS HOPE TO
 REFINE PHEROMONE CONTROL OF THE PESTS.

When a male codling moth emerges from his cozy cocoon in the spring, his first instinct is to find a female and mate. As night falls, the

Codling moths have been one of the tree fruit industry's biggest challenges ever since the pest immigrated to the United States with European colonists more than 200 years ago. Today, the moths are present in all fruit-growing regions of the world, infesting apples, apricots, pears, walnuts, quince, peaches and plums. Those cartoons and drawings that depict a worm crawling out of an apple? That's a codling moth larva.

"Codling moth is the worst apple pest in Michigan," said Larry Güt, MAES entomology scientist. "Growers primarily have used broad-spectrum insecticides, especially organophosphate compounds, to control these pests for more than 40 years. But insecticide resistance, worker safety concerns and the public's interest in reducing the use of pesticides are leading growers to look for alternative control measures."

"Up to 80 to 90 percent of a fruit crop can be damaged if a grower doesn't have a control program in place to manage codling moth," added David Epstein, IPM program tree fruit integrator. "This pest can cause great economic hardship for growers — if even a single codling moth larva is found in a truckload of fruit, the entire load is rejected by the processor or packing house."

Once in the apple, the larva munches through the flesh to the fruit's core, leaving a tunnel filled with its droppings, called frass. The worms live in the core until they're mature, then crawl out of the fruit and drop from the tree to pupate. Some larvae crawl back up the trunk to spin their cocoons in crevices in the bark. They emerge as moths and the cycle starts all over again.

Scents and Sensibility

MAES scientists have been studying the use of pheromones to disrupt moth mating since 1991. Tags or ropes impregnated with synthetic female moth pheromone are hung from trees in the orchard. The goal is to disrupt the male moth's ability to find females and prevent mating. No mating means no larvae, and no larvae means no wormy apples.

"Mating disruption was a boon to organic growers," Güt said. "Before pheromones, they didn't really have any good options to control codling moth. At MSU, we're researching how to refine and improve pheromone mating disruption for organic and conventional growers. Everyone is looking to reduce pesticide use, and using pheromones to disrupt mating has no detrimental environmental impacts."

has been studied for 15 years, and no one mechanism of how it worked," Epstein see the results, so we knew it was successful of exactly what was happening in the

merged: which includes both habituation (the vovus system becomes accustomed to the erload and the moth's brain quits paying



The top photo shows what an apple infested with a codling moth larva looks like from the outside. After the apple is cut open (bottom), the extent of the damage and the larva are visible. Up to 90 percent of a crop can be damaged if a control program is not in place.

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futures

MICHIGAN AGRICULTURAL EXPERIMENT STATION
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Harnessing Biology to Improve Farming

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 Michigan State University
 Michigan Agricultural Experiment Station



For thousands of years this work has gone on largely unnoticed by anyone outside of agriculture or beekeeping. Though other creatures contribute to pollination, honeybees carry the bulk of the work on their delicate wings. In the past few years, outbreaks of Varroa mites in honeybee colonies and the mysterious colony collapse disorder (see story on page 26) have decimated U.S. honeybee populations and sparked a growing wave of concern about the status of the world's pollinators.

"Pollinators play a critical role in helping produce the food we eat and in maintaining natural plant communities and healthy ecosystems," said Doug Landis, MAES entomologist. "As people began to notice the decline in honeybee populations, they've focused their attention on pollinators in general, which is a good thing."

Even Congress has taken note. The U.S. Senate designated June 24-30, 2007 as National Pollinator Week "to recognize the vital role of pollinators to ecosystem health and agriculture and the value of ongoing public-private partnership efforts to increase awareness and support for protecting pollinators." Gov. Granholm followed suit by proclaiming the same week Pollinator Week in Michigan. The U.S. Postal Service introduced a set of pollination stamps in June, featuring Morrison's bumblebees, a caliope hummingbird, a lesser long-nosed bat and a Southern dogface butterfly.

MAES scientists were concerned about pollinator decline long before the issue hit the headlines. Landis and Rufus Isaacs, MAES

Rufus Isaacs (above) and Doug Landis (above right), MAES entomologists, have identified a number of native plants that attract beneficial insects to landscapes. Isaacs is especially interested in plants that can attract native bees to blueberry fields to help farmers pollinate their crop. Landis, pictured with a cup plant, one of the best plants for attracting both native bees and natural enemies, is starting field trials to see if fields bordered by the native plants have fewer pest insects as well as higher yields.

gardeners could have the option of choosing plants that flower from May until October.

"Entomologists have long recognized natural enemies and pollinators as essential parts of every growing ecosystem," Landis said. "However, not all farms and landscapes contain the resources these beneficial insects require, including a constant supply of flowering plants providing ready access to pollen and nectar. Entomologists frequently recommend planting several easy-to-grow non-native plants to attract and feed natural enemies and pollinators. But non-native plants do not add to native biodiversity, and some can become invasive. We wanted to see if native plants worked as well as non-native plants and discovered that many were equally good and some quite a bit better."

The project started when Landis and Fiedler received a U.S. Department of Agriculture (USDA) special grant and money from Project GREEN, Michigan's plant initiative, to evaluate native Michigan plants for their ability to attract natural enemies of insects that attack crop and landscape plants. Natural enemies help control pest insects without chemicals, an especially attractive option for certified organic growers or any farmer looking to implement integrated pest management strategies (IPM) and reduce chemical use. Natural enemies can be either predators — insects that eat the young and adult of the pest insects — or parasitoids — insects that use pest insects as a host for egg-laying; after the egg hatches, the young feeds and develops inside the host, killing it. The pest insects that the natural enemies prey on tend to be pests across a number of field crops, fruit and landscape plants, so



A Small Step toward Restoring Native Prairie Plants

Part of Landis' research interest focuses on grasslands, one of the most endangered ecosystems in the world. Since the Europeans settled in North America, native grasslands have

“Pollinators play a critical role in helping produce the food we eat and in maintaining natural plant communities and healthy ecosystems.”

the recommended native plants are suitable for farmers and homeowners alike.

The researchers then received a 3-year Sustainable Agriculture Research and Education grant to continue the work. Isaacs and Tuell were funded by an MSU sustainable agriculture special grant to join the project, bringing a new component that would assess the plants for their attractive-

ness. "Some of native bees that are important pollinators, require nectar and pollen throughout the season," Isaacs explained. "If an area doesn't have them for only a month, the bees move elsewhere to find other plants. Having these plants is a critical first stage in developing a native bee conservation strategy that can be effective."

declined severely, primarily because the land was converted to agricultural use. In Michigan, experts estimate that about 2.5 million acres of native prairie (a type of grassland) existed before European settlement, mostly in the southern Lower Peninsula. Today it's estimated that fewer than 2,000 acres remain.

"We picked native prairie and savanna plants that used to be much more common in Michigan to test," Landis said. "We compared these native plants to the five most commonly recommended non-native plants, and we found that many native plants were either as good or better than the non-native plants. The non-native plants had a narrow range of bloom time, so they wouldn't be attractive to beneficial insects all season."

Landis and Isaacs also were aware that some of the native plants could be considered weeds.

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EMERGING ISSUES

Futures Magazine
 Michigan State University
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2006 Youth Action Committee



Elin Lucian and Autumn Root cleaning up after serving lunch to the hungry at the Soup Kitchen.



Michelle Fishman, Pauline Pasch, Hallie Wycykoff, Lindsay Armstrong, Katherine Pavlak and Jody Start surprise Lori McSweeney, of Waldumar Nature Center with her "Wish List" items.

The Youth Action Committee (YAC) is a small group of teenagers, making a big impact on their community! They are a committee made up of about 30 students from area high schools who come together monthly to fund and promote programs that benefit youth in the tri-county area.

The YAC was formed in 1991 as a challenge grant from the W.K. Kellogg Foundation. It is an advisory committee of the Capital Region Community Foundation and grants money through the Community Foundation to make a positive difference in the lives of many youth in Clinton, Eaton and Ingham Counties.

This group of outstanding youth is committed to learning about philanthropy through grantmaking and engaging in community service. In 2006, the Youth Fund had assets over \$1.3 million and made a total of 57 grants, totaling over \$49,000 to local nonprofits, helping youth programs in the Lansing area.

The YAC volunteered many hours of community service 2006. Some of their activities included a luau for the children at the St. Vincent Home, sorting and bagging food at the American Red Cross Food Distribution Center, judging an anti-smoking video contest for the American Lung Association, shopping for local nonprofits' wish lists, and delivering the items to those agencies, ushering at the Wharton Center, decorating cookies with residents at a homeless shelter and adopting a large family for Christmas who had just lost their mother. Performing community service is the hands-down favorite activity of the YAC.



YAC members sorting and cleaning food at the American Red Cross Food Distribution Center.



YACers Hallie Wycykoff, Lindsay Armstrong and Michelle Fishman, along with Advisor, Pauline Pasch, displaying items they purchased for the Ronald McDonald House.



Preparing food for the needy at the Christ Lutheran Saturday Soup Kitchen.



Tim and Jeff Hultenbeck show off some of the books the YAC collected for the Literacy Coalition as their "March is Reading Month" project.



"Wish List" shoppers West Lansing Walmart.



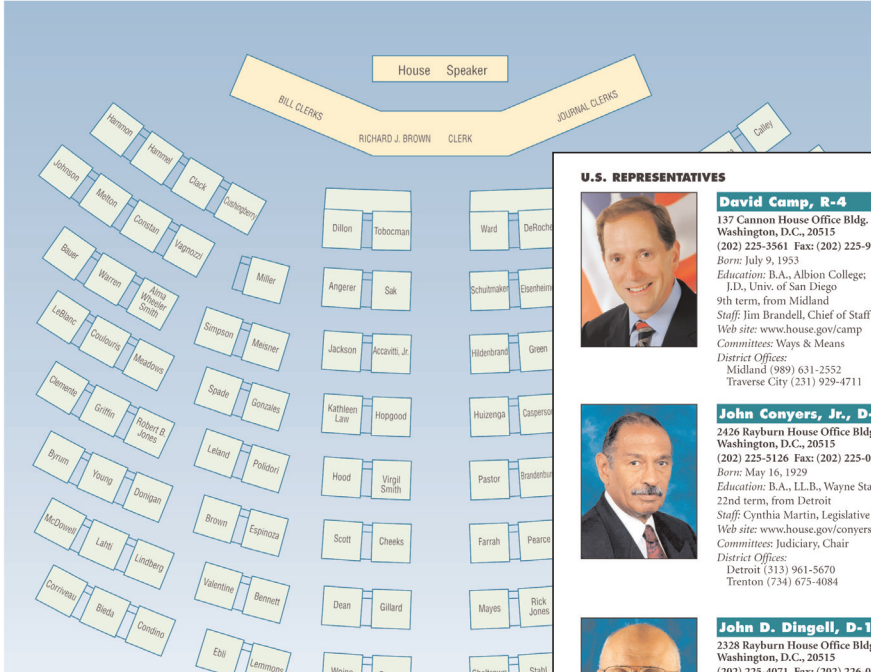
YAC members posing for a quick picture before hosting a Luau for the children at the St. Vincent Home.

2006 ANNUAL REPORT




"Someone's sitting in
 the shade today because . . ."

HOUSE FLOOR SEATING CHART



66 STATE HOUSE OF REPRESENTATIVES

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PUBLIC SCHOOL DISTRICTS

Public School Districts

KEY TO SYMBOLS

District Name
County
EN—Designates District Enrollment
T—Designates Number of Teachers
District-wide Area Code, unless otherwise indicated
Grade Levels
Special/Alternative/Career Education

MORLEY STANWOOD Community Schools
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E-mail: lmyers@morleystanwood.org

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John Boyd, Supervisor, Transportation 856-4676
9-12 Morley Stanwood - 4700 Northland Dr, 49356 856-4444 Dennis P. Sacaronowski 872
5-8 Morley Stanwood - 4808 Northland Dr, 49356 856-4530 Kim Colby 491
K-4 Morley - 13170 St. 49336 856-7044 Clark Haney 305
K-4 Stanwood - 156 Front St, Stanwood, 49346 823-2211 Douglas Reemer 300
NS Alternative - 101 S. Cass, 49336 856-6410 Linda Myers 38
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K-6 South Range - PO Box 69, South Range, 49963 482-4430 Kim Harris 226
School fax numbers—HS: 487-9999, EL: 487-0848

ADDITION Community Schools
219 Comstock St, Addison, 49230-9337 (Lenawee) T-40 EN-1075
Richard Naughton, Superintendent (517) 547-4123 Fax 547-3888
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Matthew Day, Director, Athletics 387
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K-5 Addison - 219 Comstock St, 49230 547-6124 & 1350 Holly Bretsch 434
School fax numbers—HS: 547-3838, MS: 547-3838, EL: 547-3838

ADRIAN Public Schools
785 Riverside Ave, Ste 1, Adrian, 49221-1404 (Lenawee) T-237 EN-3640
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Penny Hollosy, Coordinator, Adult Education
Rafa Hollosy, Community Resources

9-12 Adrian - 785 Riverside Ave, 49221 263-2181 Chris Timmis 1200
7-8 780th Bldg - 615 Springbush Ave, 49221 263-0543 Mike Perez 550
5-6 5th/6th Bldg - 140 E. Church St, 49221 263-8122 Matt Schwartz 450
K-4 Alexander - 520 Cherry St, 49221 263-8933 Jeff Peterson 440
K-4 Lincoln - 158 Scott St, 49221 263-8544 Maricé Brown 260
K-4 Michener - 104 Down St, 49221 263-9002 Deb Ranser 380
K-4 Prairie - 204 Airport Hwy, 49221 263-1160 Deb Agnew 317
Head Start - 239 Cross St, 49221 263-2468 David Bull
School fax numbers—HS: 263-0814, MS: (780th Bldg) 263-9984, (5th/6th Bldg) 263-1465, EL: (Alexander) 263-3633, (Lincoln) 263-9236, (Michener) 263-9236, (Prairie) 263-8910, (Head Start) 263-2036

6-8 Wagar - 11200 Grafion Rd, 48117 654-6205 Mark Arnold 790
K-5 Eyer - 1335 Carlton Rockwood Rd, 48117 654-2121 Douglas Monthel 318
K-5 Niedermeier - 8005 S. Newport Rd, 48117 358-2676 Angela Scha 337
K-5 Ritter - 8650 Carlston Rockwood Rd, 48117 379-5333 Robert Culter 329
K-5 Sterling - 160 Fessner Rd, 48117 654-8848 Dawn Clark 329
School fax numbers—HS: 654-3003, MS: 654-0057, EL: (Eyer) 654-9535, (Niedermeier) 586-3342, (Ritter) 379-0701, (Sterling) 654-9480

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K-6 Akron-Fairgrove - 4335 Lynn St, Akron, 48701 691-5141 Joseph Candela 184
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1418 Cooper St, Albion, 49224-1983 (Calhoun) T-49 EN-1432
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9-12 Albion - 235 Watson St, 49224 629-9448 Bob Sisko 300
K-5 W.G. - 401 E Michigan Ave, 49224 629-7674 Henderson Harris 260
P-2 Harrington - 100 S Clark St, 49224 629-2435 Craig Wilson 390
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9-12 Airport - 11330 Grafion

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6-8 Algonac - 9185 Marsh Rd, 48001 794-9317 Andrew Rogers 327
K-5 Algonac - 1300 Saint Clair Blvd, 48001 794-0991 Melissa Hamers 238
K-5 Fair Haven - PO Box 236670, Fair Haven, 48023 (586) 725-7911 Jennifer L Dent 211
K-5 Millside - 1904 Mill St, 48001 794-8880 Martha Symanski 289
K-5 Poine Tremble - 9541 Phelps Rd, 48001 794-3022 Gary Paquet 200
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6-8 White - 3801 15th Ave, 49010 673-2241 George Mohr 600
K-5 Dawson - 123 Elm St, 49010 673-9253 Joe Jantze 325
K-5 North Ward - 440 River St, 49010 673-6003 Tim Locker 290
K-5 Pine Trails - 2900 Center St, 49010 673-6379 Dawn Kautner 350
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6-8 Allen Park - 8401 Vine Ave, 48101 827-2020 Michael Dawson 900
K-5 Arno - 7500 Fox Ave, 48101 827-1000 Susan Vokal 316
K-5 Bessie - 17400 Champaign Rd, 48101 827-1300 Catherine Gault 432
K-5 Lindemann - 9201 Carter Ave, 48101 827-1150 Phillip Seacock 509
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School fax numbers—HS: 895-4280, MS: 895-9111, EL: (Evergreen) 892-5578, (Springview) 895-9191, (Community Educ) 892-4668

ALMA Public Schools
1500 N Pine Ave, Alma, 48801-1299 (Genoa) T-147 EN-2345
Dun Bull, Superintendent (989) 463-3111 Fax 466-2943
E-mail: dpbull@alma.k12.mi.us

Finance and Operations
and Services
Social Education

48801 463-3111 Donald Everhart 765
48801 463-3111 Carolyn Stealey 547
48801 463-3111 Linda Boyd 318
St. 48801 463-3111 Sonia Lark 347
Box Rd, 48801 463-3111 Donalyn Ingersoll 368
1776, MS: 466-7612, EL: (Pine Ave) 466-5038, (Hillcrest) 466-6067

BRINKWOOD®
STATE CERTIFIED
Playground Mulch

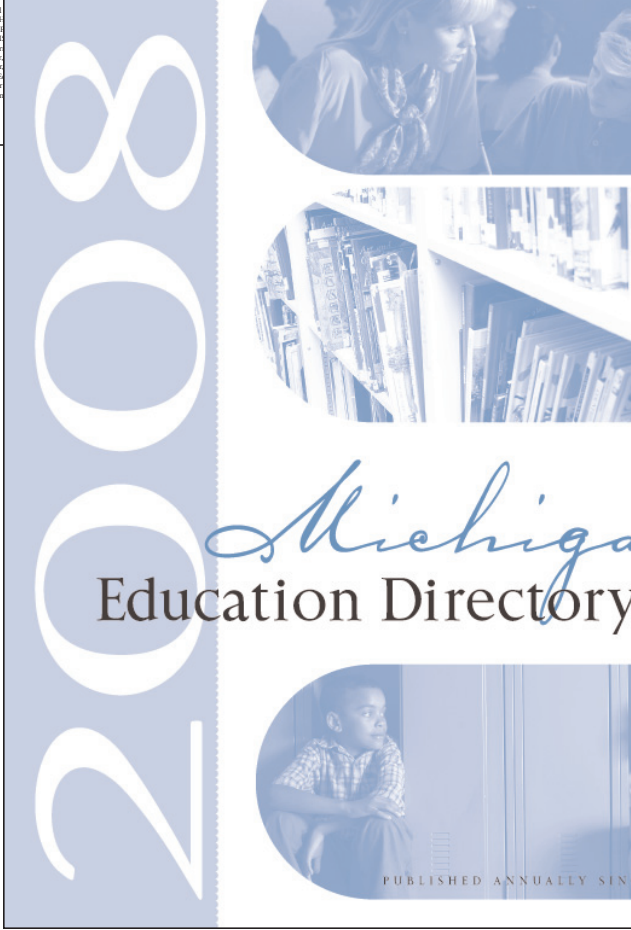
BRINKWOOD® Playground Mulch is produced from virgin wood, recycled from sawmill slabs. This results in a pure wood product, with no metal, paper or plastic mixed in.

- For all types of playgrounds, including school, city, and park playgrounds.
- Meets U.S., C.P.S.C. and A.D.A. requirements for the State of Michigan.
- Excellent freight rates! Our fleet of trucks ensures your order will be delivered on time by one of our drivers. Walking floor trailers enable us to offload in close proximity to your project. We have smaller trailers available for delivery into tighter spots.
- We can install this material for you with our blower truck for an extra charge.
- We are fully insured, including product liability insurance.
- We also carry Hardwood Shredded Bark, Wood Chips, Cedar Mulch and Color Enhanced Mulch.
- Test results, references, and samples can be sent upon request.

For more information, please call our office at **(616) 878-9190** or fax us at **(616) 878-0012**.

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WOOD PRODUCTS, INC.
"Use Michigan's Largest Mulch Company" (616) 878-9190

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Michigan Education Directory

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Michigan Education Directory, Inc.
Lansing Michigan



January is Birth Defects Prevention Month!

2007 January

sunday	monday	tuesday	wednesday	thursday	friday	saturday
	1	2	3 Eat some raw vegetables for a snack.	4	5	6 Tell a story without a book.

	7 NEW YEAR'S DAY Folic Acid Awareness Week					
	14 MARTIN LUTHER KING, DAY					
Always leave emergency instructions with your babysitter.	21	2				
	28	2				

Plan Ahead for Baby's Sake



Taking care of yourself helps you take better care of your family. Lower stress, healthier weight, and regular check-ups are a start. Plus, take these steps before and during pregnancy, to better health for mother and baby:

- ♥ Eat a variety of foods with plenty of vegetables, fruits and fortified grain products
- ♥ Wash hands often, especially when caring for young children. It's the best way to reduce the spread of infection
- ♥ Take a vitamin with 400 mcg (0.4 mg) folic acid every day—it helps to prevent some kinds of birth defects
- ♥ Practice safer sex/use condoms to protect against sexually transmitted diseases (STD)
- ♥ Have a medical check-up before you get pregnant. Discuss health problems and planning for pregnancy
- ♥ Live smoke-, alcohol- and drug-free
- ♥ Ask your doctor about the safety of your medicines or supplements in pregnancy
- ♥ Avoid using hot tubs and saunas when pregnant or planning pregnancy
- ♥ Find out if tests (like x-rays) and procedures are safe during pregnancy
- ♥ Eat fully cooked meat. If you eat Great Lakes fish, follow the Michigan Fish Advisory. Call 1-800-648-6942 or visit www.michigan.gov/mdch-toxic
- ♥ Talk to your doctor if you have a family member with a genetic disorder or disability
- ♥ Don't handle cat litter. Avoid rats, mice and other rodents—they may spread infections that can harm unborn babies
- ♥ Avoid toxic substances and chemicals at home and work

Get prenatal care early and keep every appointment!

National Center on Birth Defects and Developmental Disabilities
 800-232-4636 (toll-free)
www.cdc.gov/ncbddd

Organization of Teratology Information Services
 Call: 1-866-626-6847 (toll-free)
 Visit: www.otispregnancy.org

Watch me Grow
 Healthy, Happy and Strong!
 A CALENDAR for MICHIGAN FAMILIES
 2•0•0•7 ~ 2•0•0•8

PROGRAM

Conference registration fee includes all general and breakout sessions.

Friday October 5

6:00 P.M. Welcome Reception
 Join faculty, colleagues, and industry partners for conversation and hors d'oeuvres at this traditional conference kick-off. The reception is for registrants and adult guests only. Children (ages 3-12) are invited to Kid's Night where they'll enjoy age-appropriate activities and food. See registration form for details.

Saturday October 6

7:00 A.M. Continental Breakfast

GENERAL SESSION

8:00 A.M. Michigan Chapter ACC Annual Meeting
 Dr. Staart A. Winston
 A report on progress in the Chapter's missions of quality, advocacy, and education.

Welcome

8:15 A.M. Dr. Bradley L. Hubbard
 How Low Should We Go? What is the Evidence behind an LDL Target of 70?

8:20 A.M. What You Need to Know about Drug-Eluting Stents
 Dr. Charanjit S. Rihal

9:00 A.M. Regionalization of Acute ST Elevation MI Care: Is There a Rationale for Michigan To Consider?
 Dr. Cindy L. Grines

9:40 A.M. Refreshment Break

10:10 A.M. Cardiovascular Imaging: Opportunities and Challenges
 Dr. Robert O. Bonow

10:40 A.M. Antiplatelet Therapy for ACS:
 Dr. Charanjit S. Rihal

11:20 A.M. Lunch with Lewin: Physician Accountability in Health System Reform
 Dr. Jack Lewin

12:00 P.M. ACC's new Chief Executive Officer, Jack Lewin, MD, will discuss the tough issues facing cardiologists and their practices and how Fellows can affect the entities that seemingly drive their future.

OPTIONAL BREAKOUT SESSIONS

Fellows Competition

1:35-5:30 P.M.

4:00-5:00 P.M. Michigan Cardiology Fellows Society Annual Poster Competition Finals
 Six finalists will present their posters answer questions from the judges.

Cardiac Care Associates (CCA) Sessions

1:45-2:15 P.M. Burning Rubber to Meet the D2B Initiatives: Case Studies in STEM1
 Ms. Danette Hanson

2:30-3:00 P.M. Challenges of Atrial Arrhythmia Management
 Ms. Michele M. Loomis

3:00-4:00 P.M. CCA Poster Competition
 CCAs will present their posters and answer questions from the judges.

Sunday October 7

7:00 A.M. Continental Breakfast

GENERAL SESSION

8:00 A.M. Poster and Oral Case Competition Prize Presentations

8:10 A.M. Taking the Sinking Ship
 Dr. Jihn D. Han

8:45 A.M. CHF: Hot New Data, Cold Hard Facts
 Dr. David E. Lanfear

9:20 A.M. Complex Congenital Post-Operative Adults: Issues and Answers
 Dr. Richard A. Humes

9:55 A.M. Guidelines for Carotid Endarterectomy
 Dr. Robert D. Safian

10:30 A.M. Adjourn

CONTINUING EDUCATION ACCREDITATION

St. Joseph Mercy Health System is an approved provider for continuing medical education for physicians. St. Joseph Mercy Health System designates this educational activity for a maximum of 1.0 AMA PRA Category 1 credit. Physicians should claim only the credit that he/she actually spent in the educational activity.

FACULTY

Robert O. Bonow, MD, FACC, FAHA
 Chief, Division of Cardiology, Northwestern Memorial Hospital
 Goldberg Distinguished Professor, Northwestern University,
 Feinberg School of Medicine

Cindy L. Grines, MD, FACC
 Director, Cardiac Catheterization Laboratories
 Director, Interventional Cardiology Fellowship Program
 William Beaumont Hospital - Royal Oak

Jihn D. Han, MD
 Electrophysiologist
 Michigan Heart & Vascular Institute
 St. Joseph Mercy Hospital

Danette Hanson, NP, MSN, RN, CS, CCRN, CSC
 Cardiology Nurse Practitioner Coordinator
 William Beaumont Hospital - Troy

Bradley L. Hubbard, MD, FACC
 Section Head, Cardiology
 Michigan Heart & Vascular Institute
 St. Joseph Mercy Hospital

Richard A. Humes, MD, FACC, FAHA, FASE, FAAP
 Director of Cardiology
 Children's Hospital of Michigan
 Professor of Pediatrics

OBJECTIVES

- To gain knowledge and obtain updates on new innovations in the care of cardiac patients.
- To develop a better understanding of cardiac and vascular conditions, to apply new knowledge in the care of cardiac patients, and to enhance treatment options.
- To improve and enhance the attitude of practitioners toward the care of cardiac and vascular patients.

MEETING SITE— ACCOMMODATIONS

With more than \$11 million invested in the most aggressive renovation in their 26-year history, Grand Traverse Resort & Spa, near Traverse City, Michigan is indeed grand, new and inspiring. Named among the Top 50 travel destinations by Condé Nast Traveler and a Golf Magazine Silver Medal Resort, Grand Traverse Resort & Spa is Michigan's finest and most comprehensive resort experience.

The resort offers luxurious accommodations, tournament-quality golf, and a variety of recreational activities. Located on the shores of Lake Michigan, the resort offers a family friendly atmosphere.

Accommodations include the spa and pool, tennis courts, and a pro shop. Rates are subject to change and an \$8.50 wireless Internet surcharge and airport/transfer fee will be charged after Sept. 14, 2007.

Registration is required to make reservations affecting the 72 hours prior to the conference. The registration fee will be charged at 11:00 A.M.

CONFERENCE REGISTRATION

19th Annual Conference of the Michigan Chapter of the American College of Cardiology

Oct. 5-7, 2007

QUESTIONS?

Alice Betz, Michigan Chapter Executive Secretary
 517-663-6622 alice@accmi.org

Diane Drago, Conference Coordinator
 517-663-5147 dmsdiane@concentric.net



1. I wish to register for Hot Heart Topics for 2007.

Name _____
 (As you wish it to appear on name badge)

MD PhD RN NP PA Other _____
 Please specify

Hospital or Practice Affiliation _____
 (As you wish it to appear on name badge)

Address _____
 (At which you wish to receive your confirmation)

City/State/Zip Code _____

Telephone _____ Fax _____

Determine amount due by checking all that apply:

Chapter member physician \$250

Non-member physician \$275

Fellow-in-training waived

Resident participating in case or poster competition waived

Allied health professional (includes Cardiac Care Associates) \$100

Cardiac Care Associate participating in CCA poster competition waived

Spouse/guest ticket for Saturday's Lunch with Lewin \$25 x _____
 (indicate # of tickets)

Kid's Night (during Welcome Reception) \$25 x _____
 (indicate # of children)

Amount due: \$ _____

7. Payment

My check (payable to Michigan Chapter ACC) is enclosed.

Please charge my credit card: VISA MC American Express

Name on card (print clearly) _____

Card number _____ Exp. Date _____

Cancellations: Full refund is made when written cancellation is emailed (dmsdiane@concentric.net) or faxed (517-663-5245) by Friday, September 28.


Fees will not be refunded for no-shows. In the unlikely event that the program is cancelled, the Chapter is responsible only for full refund of the registration fee, not for transportation or hotel accommodations.

8. Return form to:

Hot Heart Topics for 2007
 620 Hall Street
 Eaton Rapids, MI 48827
 Fax: 517-663-5245

*Faxed registration forms are accepted and encouraged to reserve a space at the conference. Payment may follow in the mail if necessary.

*Do not assume you are registered for the conference unless you receive a confirmation in the mail.



What You Need to Know about Drug-Eluting Stents

How Low Should We Go? What is the Evidence behind an LDL Target of 70?

CHF: Hot New Data, Cold Hard Facts


Cardiovascular Imaging: Opportunities and Challenges

Complex Congenital Post-Operative Adults: Issues and Answers

Featured Guests: Robert O. Bonow, MD, Northwestern University
 Jack Lewin, MD, American College of Cardiology
 Charanjit S. Rihal, MD, Mayo Clinic

19th Annual Conference
 October 5-7, 2007 Grand Traverse Resort & Spa

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MCACC Conference 2007 Brochure and Materials
 Michigan Chapter of the American College of Cardiology
 Lansing Michigan