

## *ACS/CIC AWARDS BANQUET:*

- Topic:** Designing A Better Bowling Ball: Fun with Structure-Property Relationships
- Speaker:** Heinz Plaumann (BASF)
- Place:** Beach Grove Country Club in Windsor, (see page 15 for map and directions)
- Date:** May 24, 2003
- Time:** Cash Bar: 6:15  
Dinner: 7:00 p.m.

Our annual dinner meeting with our colleagues of the Windsor CIC will be on May 24<sup>th</sup> at the Beach Grove Country Club in Windsor. On that night we will recognize our 50 year members, Section Distinguished Award Recipient, ACS Award winners from local colleges and universities, and winners of the Detroit Section's awards at the Metropolitan Detroit Science Fair.

The evening schedule will include cash bar from 6:15 - 7:00, dinner at 7:00, with awards and lecture at 8:00. See page 13 for an abstract of the lecture. The dinner will cost \$31 USD or \$35 CDN, payable by check at banquet. A special vegetarian meal is available if necessary; notify Mark Benvenuto when making reservations. Please note that due to dress code of the Country Club, no one will be admitted who is wearing denim.

Reservations must be received by Friday the 19<sup>th</sup>!!! of May 2006. *For ACS Members:* To make reservations please contact Mark Benvenuto by email at: [benvenma@udmercy.edu](mailto:benvenma@udmercy.edu) or by phone at: 313-993-1258

*For CIC Members:* To make reservations please contact Marlene Bezaire, [mbezaire@uwindsor.ca](mailto:mbezaire@uwindsor.ca), (519-253-300, x3520)

## **SECTION ANNUAL MEETING**

Section Bylaws call for an Annual General Membership Meeting. The Section's 2005 Annual Meeting will be held on Tuesday, May 10th starting at 7:00 pm in room 1310 of the Professional Education Center (PEC) on the University of Michigan-Dearborn campus. Section members are welcome to attend and to present business items before the Executive Committee. As usual the regular May Executive Committee Meeting will immediately follow the Annual Meeting. Non-Executive Committee Section members are welcome to stay for the regular meeting. A quorum of 15 members is necessary to conduct business at the Annual Meeting. For more information, call the Section Secretary, Tony Sky at 248-204-3606.

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## **NOMINATIONS FOR 2007 SECTION OFFICERS AND COUNCILORS**

The Section's Nominating Committee has selected a slate of candidates to run for election for 2007 officers. According to the bylaws, Councilor and Alternate Councilor offices must have at least one more nominee than there are available openings. Councilors and Alternate Councilors serve three year terms. Nominations may also be made by petition. Section members interested in running for an office can submit a Petition to the Section Secretary giving the office for which they wish to run. The Petition must be endorsed by 1% of the Section Membership (16 members), and sent to the Section Secretary, Tony Sky, postmarked on or before June 30, 2005. For more information or for help in obtaining the necessary endorsements, call the Section Secretary, Tony Sky at

248-204-3606, or by e-mail: sky@ltu.edu

## **SLATE OF NOMINEES FOR FALL 2005 ELECTION**

Chair-Elect:	Steve Scribner
Secretary-Elect:	Mary Kay Heidtke
Treasurer-Elect:	Megan Klein
Councilor (choose 1):	Matt Mio Walter Siegl
Alternate Councilor (choose 1):	Sunitha Grandhee Kevin Perry

## **VOLUNTEERS RECOGNIZED AT MEETING MAY 24**

Every year the Detroit Local Section of the American Chemical Society honors members that have gone above and beyond the call of duty. These volunteers have taken time and energy out of their busy schedules to provide assistance and resources to the Section in various roles. Please join us in congratulating the following honorees at the Annual Awards Meeting at the Beach Grove Country Club in Windsor, Ontario. (Details of the meeting, including date and time can be found on Page 1.)

**Salutes to Excellence** is an award program that gives ACS members an opportunity to conduct an event within their communities that recognizes the positive impact on everyday life made by a product of chemistry, a practitioner of chemistry, or a place of importance in chemistry. A central part of the event is the presentation of a commemorative plaque, furnished by Office of Community Activities, for the honorees for the chemistry achievement being honored.

### **Salutes to Excellence Recipients 2006 –**

Angela Allen, University of Michigan – Dearborn  
Steve Chambreau, Vice-President and Co-Founder,  
Chemists Without Borders

**The Distinguished Service Award** was established in 1978 to honor members for long and meritorious service to the Section. Candidates for the award are nominated at a regular Executive Board meeting and elected Board members determine the recipient. The recipient will receive a plaque from the Section.

### **Distinguished Service Award Recipient 2006 –**

Mary Kay Heidtke, Magni Industries, Inc.

### **Past Chair Award –**

Kevin Perry, General Motors

## FIFTY-YEAR MEMBERS 2006

The American Chemical Society and the Detroit Section are honoring those who have been members of the Society for fifty years. In 2006 there are 862 new fifty-year members and seven of these are from the Detroit Section. Each member will receive a special certificate and a permanent badge entitling the member to free registration at all ACS national and regional meetings.

Peter Blumbergs  
John Gardon  
Kenneth Iseler  
Marvin Jackson  
Norman Levitin  
John Oliver  
Andrew Reeves

We encouraged the fifty-year members to share their valuable experiences in chemistry with us. Throughout the remainder of the year we will feature biographies in *The Chemist* on these members.

**Dr. John L. Gardon:** Before Dr. Gardon retired, he held positions as Vice President, R&D of Akzo Nobel Coatings, and earlier of the Sherwin Williams Co. He had held management positions with American Can's M&T subsidiary and with the Rohm and Haas Co. He was Chairman and is now Fellow of the Polymeric Materials, Science and Engineering Division of the American Chemical Society. He chaired a Gordon Research Conference on Adhesion, held senior positions in various scientific and business associations, and obtained several national scientific awards. He authored 51 refereed papers, four textbooks, and sixteen US patents. He obtained his Ph.D. in chemistry summa cum laude from McGill University, and is a chemical engineering graduate of the Swiss Federal Institute of Technology.

During most of his career he was in the forefront in the development of ecologically friendly paint systems. His scientific interest included emulsion polymerization, adhesion, and cellulose chemistry. Currently he is lecturing on the energy supplies available to humankind and on global warming.

# **COUNCILOR REPORT from the 231<sup>st</sup> ACS National Meeting in Atlanta, GA, March 26-30, 2006**

At the ACS Council meeting during the 2006 spring national meeting, the Council selected Bruce E. Bursten and Bassam Z. Shakhshiri as candidates for 2007 President-Elect. These two candidates will stand for election in the Fall National Election. The ACS closed 2005 with 158,422 members, reversing a 4-year downward trend in Society membership. Of the 15,532 applications processed in 2005, nearly 900 came from the Member-Get-A-Member campaign, in which many councilors participated. The membership retention number remained stable at 92.4%. The Society ended 2005 with a net contribution from operations of \$11.6 million, which was \$9.1 million favorable to the approved budget. The favorable variance was primarily attributable to higher-than-budgeted print and electronic information services revenue and investment income, as well as expense savings from staff vacancies and reductions in information technology spending. The Society also realized \$21.0 million in investment gains. In total, unrestricted net assets increased just over \$26 million in 2005 to \$211 million, and the Society ended 2005 in full compliance with the Board-established financial guidelines.

The Council voted to set the member dues for 2007 at the fully escalated rate of \$132. In December 2002, the Board of Directors approved a special temporary assessment to cover the costs of increased funding for divisions and local sections. This funding increase resulted from the Petition for Division and Local Section Funding, which was subsequently approved by the ACS Council, Board, and membership in 2003. The Board enacted the temporary assessment with the understanding that it would be reviewed each year to determine whether it could be reduced. In light of the Society's strong financial performance, the Board voted that, rather than enacting the assessment of \$8 scheduled for 2007, that the assessment would be reduced to \$4. 2007 is the final year for the Special Assessment.

A special discussion item was put on the Council agenda for this meeting. The discussion focused on membership – specifically, the requirements for ACS membership, and whether they should be made more or less restrictive, or kept the same. ACS President E. Ann Nalley invited the co-chairs of the Board-Council Policy Committee Governance Review Task Force, James D. Burke and William F. Carroll, to help frame the discussion by presenting the results of a councilor survey on ACS membership requirements.

Many ACS committees and councilor caucuses discussed and/or provided input into three key Society initiatives:

1. The Society's new vision statement: "Improving people's lives through the transforming power of chemistry," which resulted

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from the input of several thousand ACS members, was unveiled and discussed at this meeting.

2. The Board-Council Policy Committee Governance Review Task Force was charged with reviewing the Society's governance, and Constitution and Bylaws, to ensure that the Society has a governing framework to enable it to best fulfill its mission, meet member needs, and remain a world-class organization. The task force developed a framework that emphasized five key elements of the Society's governance, which are: membership, geographical organization, disciplinary organization, governance structure, and governance operations.
3. A Program Review Advisory Group (PRAG) has been established to assist the Committee on Budget and Finance in reviewing all programs of the Society (with some exemptions) on a periodic and regular basis. The PRAG consists of councilors, members of the Board of Directors, members of the Committee on Budget and Finance, and representatives from the committees with oversight over the programs under review in a given year.

### ***In Committees Which Your Councilors Serve On:***

**The Meetings and Expositions Committee (M&E)** forwarded to Council and the Council VOTED to recommend to the Board of Directors that the spring meeting for 2015 be held in Denver, Colorado, March 22-26; and that the fall meeting be held in Boston, Massachusetts, August 16-20. The Council also voted to recommend locations and dates for the 2016 meeting as follows: the spring meeting to be held on March 13-17, in San Diego, California; and the fall meeting to be held in Philadelphia, Pennsylvania, on August 21-25. M&E confirmed that facilities for the planned Spring, 2008 Meeting in New Orleans would be ready and endorsed the site unanimously. The Spring 2008 Meeting in New Orleans will also be held with the American Institute of Chemical Engineering (AIChE). Jim Landis was appointed to an ACS-AIChE working group charged with developing the joint meeting. ***Jim Landis is a Member of M&E.***

**The Chemists with Disabilities Committee (CWD)** discussed the Collaboration of Committees Working Group's first meeting. This working group, consisting of representatives from the four committees that operate under the umbrella of the Department of Diversity Programs: CWD, Committee on Minority Affairs (CMA), Women Chemists Committee (WCC), and Younger Chemists Committee (YCC), will identify projects and services that can be improved through collaboration efforts of these committees. A page on the CWD Web Site (<http://membership.acs.org/C/CWD/>) that describes how to make Web sites and publications accessible to the visually impaired will be developed. The committee also discussed the reprinting of *Teaching Chemistry to Students*

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with *Disabilities: A Manual for High Schools, Colleges, and Graduate Programs*, 4th Edition and administration of the CWD Travel Grant program. **Jim Landis** is the newly appointed Chair of CWD.

**The Local Section Activities Committee (LSAC)** reviewed the activities of its four subcommittees. These four working groups are responsible for creating the quarterly electronic newsletter *Leading Together*, administering the on-line annual report program SOLAR, reaching out to help Local Sections in need, helping Local Sections build alliances, selecting the LSAC ChemLuminary Award winners, and administering the Innovative Project Grants program. In addition, each LSAC member helps to review the 189 Local Section Annual Reports submitted each year. A special LSAC initiative for 2006 is a Local Section Summit to be held on May 5-7, which will assess what strategies and tools Local Sections will need to thrive in the future. **Charlene Hayden** serves as Chair of the Grants & Awards Subcommittee for LSAC.

**The Committee on Constitution & Bylaws (C&B)** reviewed the information provided by Board-Council Policy Committee Governance Review Task Force which was charged with reviewing the Society's governance and discussed it in terms of what changes might be required in the Constitution and Bylaws of the society. Various approaches to handle such changes were discussed. The committee also reviewed a presentation from the Program Review Advisory Group (PRAG) that has been established to assist the Committee on Budget and Finance in reviewing all programs of the society. The review status of by-laws changes and updates submitted by Divisions and Local Sections were evaluated. Walter Siegl is a member of C&B Committee.

Respectfully Submitted,  
Charlene Hayden, Jim Landis and Walter Siegl  
Councilors of the Detroit Section

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## **2006 TriSectional Meeting Scheduled for members of the Detroit, Huron Valley and Toledo Sections of the ACS**

The Huron Valley Section is hosting the 4th annual Tri-Sectional Meeting on Saturday, June 10 at 6:00 pm at Paesano's Restaurant [just west of US23 on Washtenaw] in Ann Arbor, MI for a Multi- course wine dinner. with introductions to wine; plus chemistry and wine vignettes presented by Bruce DeMaine, Past-Chair of the Huron Valley Section. The cost will be \$25 per person. For further details, please contact Paul Jones (prjones@umich.edu) or Bert Ramsay (bramsay1@emich.edu) of the Huron Valley Section.

## **SCIENCE FAIR PROGRAM: 2006 DETROIT SCIENCE AND ENGINEERING FAIR**

For the 11th straight year members of the Section's Environmental & Safety Committee judged in the Professional Awards Division of the Senior Fair. Up to four awards could have been given. Two for projects in the Outstanding category and two in a Commendable category. Outstanding project students are each given a \$100 US Saving Bond and \$50 for a commendable project. Winning students, their parents and teachers are invited to the May Section Meeting where bonds and certificates are presented. Six judges took part in the program. They Were Keith Williams, Yolanda Watts, John Halthon, Wallace Ribbron, Ed Havlena and Peter Warner Judging began with a quick screening process used to pick out only projects that dealt with both environment and chemistry. The entire Senior Division of the Fair was included in this process. The only aim here was to find chemical/environmental projects for detailed appraisal by the entire team of judges. The process included interviews with the students by the entire judging team. Each project was rated individually by each judge. The ratings were combined and the final decision was that two projects were worthy of the Outstanding award and two Commendable. The results are shown below. More information about judging is available here

### **OUTSTANDING**

**Jessica L Laviolette**

Rapid Production of Ethanol by Vacum Process (Engineering)

12th grade, Brandon High School, Ortonville, MI

Teacher: Kelly Sweet

*As a Fair Grand Prize Winner, she will compete at the International Fair in Indianapolis in early May*

**John Zhou**

Synthesis of Conducto-Magnetic Polymers asNanotranceducors in Biosensor Design (Engineering)

12th grade, Detroit Country Day, Upper Divison, Beverly Hills, MI

Teacher:Marc Fazio

### **COMMENDABLE**

**Juliet Aneme**

Chemical Analysis of Surface Water (Chemistry)

12th Grade,Mercy High School, Farmington Hills, MI

Teacher: Kathleenn Kitzmann

**Akahay Verma**

Investigations of the Effect of Pollutants on Plant Growth (Environmental)

9th grade, Detroit Country Day, Upper Divison, Beverly Hills, MI

Teacher: Marc Fazio



## The Detroit ACS Storms Capital Hill

Gina Ludwig (Henkel Technologies), of the Detroit Local Section, was invited by the National American Chemical Society to be one of three members to represent 159,000 chemists and chemical engineers from across America to attend Congressional Visits Day. Gina was the only ACS member representing the state of Michigan. She is currently one of the Kids and Chemistry Co-chairs and the Section's Public Relations chair. The purpose of her visit to Capital Hill in Washington D.C. was to support the President's American Competitiveness Initiative. President Bush stated on February 2<sup>nd</sup>, 2006 "Federal investment in research & development has proved critical to keeping America's economy strong by generating knowledge and tools upon which new technologies are developed".

Gina attended seven meetings on March 29<sup>th</sup>, 2006 with Senator's and Congress Members from Ohio, Indiana and Michigan. Michigan was her primary focus, explaining Michigan's benefit from increased Research and Development funding to members of congress and staff. Gina conducted meetings at the offices of Senator Debbie Stabenow, Senator Carl Levin, and Congressman Joe Knollenberg. This was her second visit to Joe Knollenberg's office, the first being three years ago regarding this same initiative. Gina also had a chance to speak with Congressman Vernon J. Ehlers, a Physicist by formal training. All of these meetings resulted in full support of increased funding for the National Science Foundation, and The Department of Energy that represent the core of basic research in America. Her efforts were time well spent for our nation's future in Science, Engineering, Technology and Mathematics (STEM) education at the K-12, undergraduate and graduate levels. STEM education will support the Department of Defense which has an increasing demand for scientists and engineers. Congressman Vernon J. Ehlers said "NSF is absolutely the best place, unequivocally for the lead in improving undergraduate STEM education and it is very important to send this message to Congress and the President".



*Gina Ludwig with  
Representative Vernon J. Ehlers*

"I am proud to have played a part in helping our nation's future in science, defense and our overall National and Economic security protection" says Gina.

Representatives from several different states agreed that America's greatest challenge is capturing student's interest and drawing them to science, technology, engineering and mathematics fields. If you would like to learn more about this initiative and how you can help keep American strong, please visit:

<http://www.detroitsection-acs.org>

*Submitted by Gina Ludwig*

## **2006 U.S. National Chemistry Olympiad Detroit Local Section Examination**

On Thursday, March 16, more than 200 students representing 28 area high schools converged on the University of Michigan-Dearborn for the local section exam for the US National Chemistry Olympiad. The two-hour exam is the first step in the process of selecting the four-person US Olympiad team. The top twelve students on the local section exam were selected as Nominees of the Detroit Section and returned to UM-Dearborn on April 20 to sit for the National Exam. The next eight students were named as Runners-up. The names and schools of the Nominees and Runners-up are listed below on pages 11 and 12. Through the generosity of the General Motors Corporation the Nominees and Runners-up will receive cash prizes of \$250 and \$100 respectively in recognition of their accomplishments.

The Chemistry Olympiad program is organized locally by Mark DeCamp, Detroit Section Olympiad Coordinator, assisted by the Section's Education Committee.

The 28 following schools participated:

Adams High School(Rochester)	Farmington High School
Allen Park High School	Fordson High School
Anchor Bay High School	Franklin High School
Andover High School	Garden City High School
Athens High School (Troy)	Grand Blanc High School
Belleville High School	Grosse Pointe North High School
Brandon High School	Groves High School
Brighton High School	International Academy
Carman Ainsworth High School	Marian High School
Cass Technical High School	Mercy High School
Chippewa Valley High School	Northville High School
Cranbrook Kingswood School	Novi High School
Detroit Country Day School	The Roeper School
Divine Child High School	Troy High School

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## NOMINEES

Name	Hometown	High School	Teacher
Vivek Behera #	Farmington Hills	Det. Country Day School	Julia Winter
Temple He *	Troy	Troy High School	William Hevel
Dave Montague	Brighton	Brighton High School	Rick Des Jardins
Bohao Pan #	Canton	Cranbrook Kingswood	Bruce Kohl
Rosemary Phelps #	Brighton	Brighton High School	Rick Des Jardins
Jonathon Schwartz	Huntington Woods	Det. Country Day School	Julia Winter
Asra Shaik *	Novi	Novi High School	Hanson/Helmkamp
Albert Tang	Northville	Northville High School	Thomas Silak
Nikhil Vadhavkar #	Northville	Northville High School	Thomas Silak
Alex Xie	Troy	Troy High School	William Hevel
Alexander Xu #	Bloomfield Hills	Andover High School	Dennis Kwasny
Ruixiao Zuo	Novi	Novi High School	Hanson/Helmkamp

Note: National rules permit a maximum of two Nominees from a particular school.

## RUNNERS-UP

Name	Hometown	High School	Teacher
Liting Chen	Novi	Novi High School	Hanson/Helmkamp
Kelly Gu #	Troy	Troy High School	William Hevel
Laura Helmkamp *	Brighton	Brighton High School	Rick Des Jardins
Andrew Koltonow	Beverly Hills	Groves High School	Marla Fallucca
Jacqueline Kow	Troy	Troy High School	William Hevel
Alan Pezeshki	Troy	Athens High School	Jane Marie Moss
Nisanth Reddy	Troy	Troy High School	William Hevel
Wendy Ying	Novi	Det. Country Day School	Julia Winter

# Nominee, 2005

\* Runner-up, 2005

## **Submit Your Topics for the Industrial Women's Networking Dinner!**

The Industrial Relations Committee is planning a "Networking" dinner meeting for women industrial chemists.

**Tuesday, June 6th at 6.30 p.m.**

Kerby's Koney Island (in the Meeting Room)  
21200 Haggerty Rd, Northville, MI  
Tel: (248) 449-7088

The objective of the meeting will be to discuss the following issues pertaining to women in industry such as:

1. Career balance (e.g., company policies on flexible hours, telecommuting, maternity leave, etc.),
2. Issues for dual career couples (e.g., promotion & relocation strategies),
3. Dealing with the tough Michigan job climate & finding career alternatives.

**We'd like to hear from you!** Please RSVP by May 30, to Sunitha Grandhee (248-926-4226, [sgrandhee@exatec.biz](mailto:sgrandhee@exatec.biz))

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## **Kids and Chemistry Supports Kimball Career Fair**

The Kids and Chemistry (K&C) Committee had its third successful year at the career fair at Royal Oak's Kimball High School. Well over 300 students and parents visited the K&C table and the students conducted approximately 100 interviews of the chemist volunteers. Special thanks to all our volunteers: Kevin Perry, Manoj Gupta, Angela Allen, Emil Lozanov, Jim Landis, Mary Kay Keidtke and Felix Schneider.

# *ACS/CIC AWARDS BANQUET:*

## **Designing A Better Bowling Ball: Fun with Structure-Property Relationships**

**J. Jourdan, D. Peters, H. Plaumann FCIC  
BASF Corporation, 1609 Biddle Ave., Wyandotte, MI 48192, USA**

**T. Duever  
Dept. of Chemical Engineering, University of Waterloo  
Waterloo, ON N2L 3G1, Canada**

**Presented by Heinz Plaumann**

### **ABSTRACT**

The coverstock of high performance, professional level bowling balls is often made of with a custom-designed polyurethane material. In this presentation, we discuss some of the elements going into bowling ball design and performance, where “hook is everything”. The tendency for different materials to absorb the oil used to lubricate the lane is described as well as other surface effects such as polishing and surface wear.

There are no guarantees, of course, that attending this presentation will improve your personal bowling score...but it should be fun!

## Calendar of Upcoming Events

May 24, 2005

Annual Awards joint banquet with Windsor CIC. *See pages 1, 13 and 15 for details.*

June .6, 2005

Industrial Women's Networking Dinner, *See page 12 for details.*

June 10, 2006

Tri-Sectional Meeting. *See page 7 for details.*

## Detroit ACS Section and ANACHEM on the Web

A Website for the Detroit ACS Section and ANACHEM, maintained by Ed Havlena can be found at: **<http://www.detroitsection-acs.org>**

**The Detroit Chemist** is now also available via email in text-only form. The email version is distributed at the same the issue goes to press (much sooner than the printed and bulk mailed edition). To subscribe send an email to: [majordomo@angus.mystery.com](mailto:majordomo@angus.mystery.com) with

subscribe detroit-acs  
end

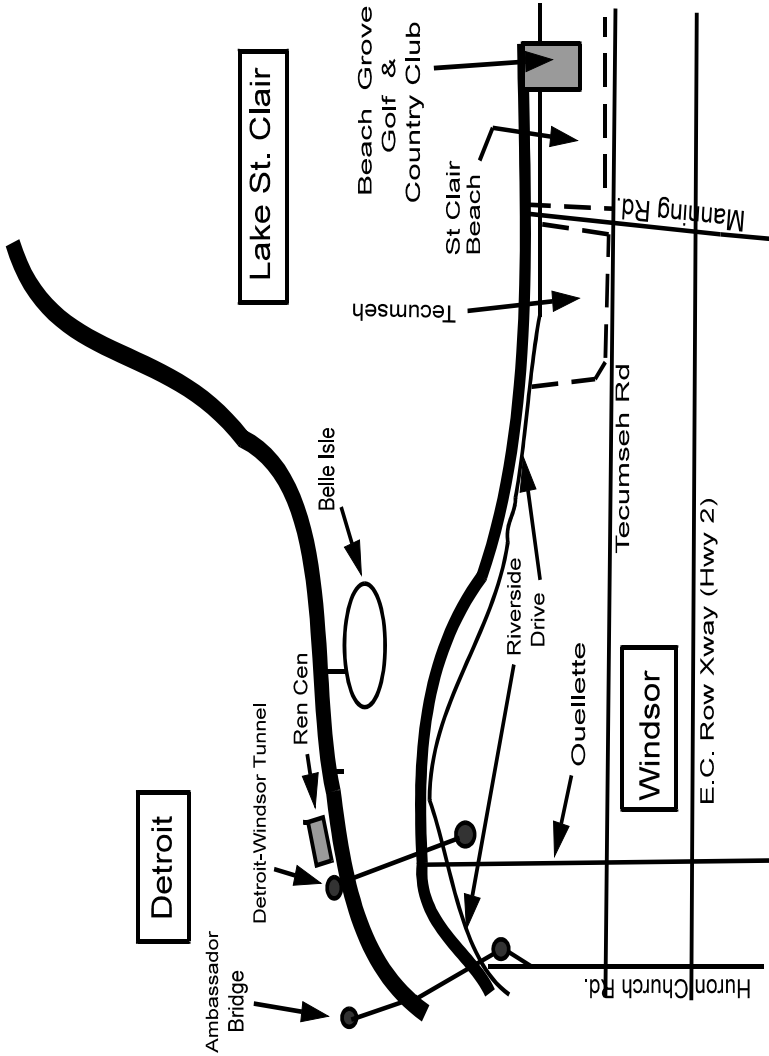
in the body of the message.



# Beach Grove Country Club in Windsor

## SITE LOCATION MAP AND DIRECTIONS

The easiest and most direct way to get to the Beach Grove Golf and Country Club is to take the bridge or Tunnel to Canada. From the bridge exit you are traveling south. Turn around and proceed north to the river and turn right onto Riverside Drive. From the tunnel exit turn right then left at the first traffic light to Riverside. Turn right onto Riverside. Follow Riverside east through Windsor along the river and Lake St. Clair through Tecumseh and St. Clair Beach past the Lakewood Country Club to the BG&CC on your left. The Club is about 10 miles from the tunnel. Driving time from the bridge is about 25-30 minutes and 20-25 minutes from the tunnel.



## Map to May Meeting