President’s Message

This is my final president’s message, so I get to say “So long, and thanks for all the fish!” (This is a line attributed to a group of dolphins leaving earth just before the planet’s destruction in “A Hitchhiker’s Guide to the Galaxy” by Douglas Adams. I’m not predicting the Earth’s demise, however, note that it is now 2012 and both the Mayans and John Cusack can’t be wrong.) I’ve been honored to serve as president for the past year, and it’s been great to work regularly with the other MMCA officers and board members, particularly as we investigated new lunch venues in pursuit of an optimal meeting location.

I think we can all expect 2012 to be a challenging year. Mosquitoes in Michigan aren’t going to disappear, but let’s hope that things are a bit less active than 2011. Costs for mosquito control operations are certainly not diminishing, but the abilities of “customers” (public or private) to pay for services will continue to be stretched. New issues of dealing with NPDES permits for many of our members will cause much frustration (yes, I know “frustration” isn’t likely to define the true feelings here). Like almost every other industry, we’ll be forced to do more with less. Yet, there are reasons for optimism and the recognition that things have looked similarly rough in times past. New products (e.g., spinosad derivatives) are being made available to supplement or supplant others. The lack of strong resistance in mosquito populations to most of our current weapons is also reassuring. We should remember that the NPDES permit process is not exactly welcomed by our regulatory partners, and that this may foster better cooperation between those agencies and our members, leading to an eventual reduction of, or (dare we hope?) elimination the process. Finally, a bedrock reason for optimism is that the work we do is an important and often essential service. Without debating causality, I think we’re already starting to see the effects of climate change and this will almost certainly lead to more mosquito species and activity in Michigan. Therefore, the need for effective mosquito control will only increase in our state, and we need to continue to develop efficient, integrated management programs to address that need.

The previous paragraph points out the need to foster interactions made possible through the MMCA. This organization provides a forum to collectively address the issues that affect everyone in the field, allows the sharing of ideas and techniques, and provides training services to those entering the arena of mosquito control. I urge all of you to keep your memberships up to date and to participate as much as you can. The annual meeting is a great place to start, and to interact with your colleagues and learn about the ways that others will be dealing with the coming challenges. It also happens to be a lot of fun. Coincidentally, that meeting (originally planned for Port Huron) is coming up soon – February 1 and 2, at the Detroit Marriott, Troy. I hope to see many of you there.

Although this isn’t really my final statement, I want to thank all of you for the opportunity to participate at the policy level of this exceptional organization. I’ve learned many things (that I don’t really understand Robert’s Rules of Order, for example) with my experience, but largely, I’ve had my initial impressions confirmed: A group of good-hearted, caring, and hard-working professionals have banded together to make mosquito control in Michigan more effective and safe for the people they serve.

Cheers,
Congress to EPA: Flawed Risk Assessment Must Change

The Environmental Protection Agency (EPA) is responsible for developing regulatory standards based on scientific assessments of a given chemical’s toxicity. Now, however, longstanding industry and government criticism of this process has been bolstered by a study conducted by the National Academies’ National Research Council (NRC), and Congress has directed the EPA to improve their review process.

An integral part of these improvements will be the National Academies’ review of up to three of the EPA’s toxicity assessments, which have been known to inaccurately pronounce chemicals dangerous. These chemical assessments are often quite controversial, inciting skepticism and disagreement from both industry and Capitol Hill. Most recently, the EPA’s conclusion that formaldehyde causes leukemia was so heavily disputed that an NRC expert panel was called in to evaluate the assessment — which they found to be flawed. EPA assessment of styrene and chromium 6 were discovered to be similarly inaccurate.

The public may see the effects of these new requirements relatively soon, as the budget language stipulates that the National Academies’ report should take no longer than 18 months. And, in fact, Congress has specified that the Academies must review the EPA’s draft assessment of inorganic arsenic, which has been the focus of recent public concerns.

Dr. Ross, from ACSH, was glad to hear the news. “The EPA is frequently too quick to conduct perfunctory and superficial reviews of chemicals that they then incorrectly label as carcinogenic,” he says. “If the National Academies could take a supervisory role, it would benefit everyone, business and consumers alike.” Noting that the Natural Resources Defense Council, an anti-chemical activist group, has criticized the new mandate, claiming it will be too slow and expensive, Dr. Ross observed, “Better a few extra months to correctly evaluate a chemical’s toxicity than the ‘let’s just ban everything’ approach favored by the NRDC and their acolytes.”

NPDES

As you may be aware, there has been extensive effort to obtain a legislative reprieve from the court-mandated requirement to obtain NPDES permit for pesticide applications to or near waters of the U.S. To date these efforts have not seen complete and final success. House Bill 872 passed the House on a bipartisan vote, passed out of the Senate Agriculture Committee and is pending final vote by the full Senate. A bi-partisan request by 25 Senators was sent to Senate Majority Leader Reid to schedule a vote on 872 but so far nothing is scheduled. There is still a possibility that such a vote can occur this year but, in the foreseeable future NPDES permits will be required.

The Michigan DEQ has returned to the process of developing permits for applications in Michigan. A few changes from previous drafts that you may have seen include:

- Permit modified in accordance with EPA Final PGP to include requirements for two types of Operators: Applicators and Decision-makers (permittees).
- Mosquitoes and other flying insects – application for coverage under the permit is required if you treat more than 6400 acres in a calendar year with adulticide (proposed permit was 640 acres for both larvicide and adulticide). No threshold for larviciding. (Note: for-hire applicators are not required to submit applications.)
- Technology-based effluent limitations for all Decision-makers: must use only the amount of pesticide and frequency of pesticide application necessary to control the target pest.
- Technology-based effluent limitations for Decision-makers who submit applications for coverage: must implement pest management practices, previously identified as integrated pest management practices.

Plan, annual report, and recordkeeping requirements now are different for small and large entities. Only large entities that submitted an application are required to develop a PDMP and submit an annual report. Small entities are not required to
develop a PDMP; instead, these entities must complete a short pesticide discharge evaluation worksheet (PDEW). That worksheet contains basic information on the pesticide application and any measures implemented prior to application. The worksheet is to be retained by the Decision-maker (no need to submit).

Draft permits are available for review at the MDEQ website: [http://www.michigan.gov/deq/0,1607,7-135-3313_3682_3713-241279--,00.html](http://www.michigan.gov/deq/0,1607,7-135-3313_3682_3713-241279--,00.html).

Informational meetings and presentations at stakeholder gatherings will offer applicators an opportunity to learn more about the final permits. The best such opportunity for mosquito control applicators will be at the upcoming MMCA conference in Troy. Jeff Fisher and Christine Alexander of the MDEQ will provide updates on NPDES and related issues. Please plan to attend.

The new application collects existing Web pages on specific chemicals on EPA's Office of Pesticide Programs' website and allows users access to this information through a single portal. Users will also be able to quickly find the current status of a chemical and where it is in the review process. Another key feature is the ability to determine if there are any dockets open for public comment for a given chemical.

Other key features of Pesticide Chemical search include:
- 20,000+ regulatory documents such as fact sheets and REDs
- Links to over 800 dockets in Regulations.Gov
- Links to important information, including pesticide tolerances in the eCFR
- Web services that provide a wide variety and depth of information about a particular chemical
- 100,000+ chemical synonyms to power the search engine.

Pesticide Chemical Search will be expanded to include pesticide product labels and other relevant information in the near future.

Try the new Pesticide Chemical Search tool by visiting [www.epa.gov/pesticides/chemicalsearch](http://www.epa.gov/pesticides/chemicalsearch).

Pyrethrins/Pyrethroid Cumulative Risk Assessment Confirms Safety of Current Uses; Supports Consideration of New Uses

EPA's recently completed cumulative risk assessment indicates that exposures from the many current uses of pyrethrins and pyrethroid insecticides do not pose risk concerns for children or adults. Further, the cumulative assessment supports consideration of registering additional new uses of these pesticides. EPA therefore is issuing this final pyrethrins/pyrethroid cumulative risk assessment and requesting comment, including information that may be used to further refine the assessment. Once the agency completes and approves pyrethroid single chemical assessments, it is likely that new uses of these pesticides will be added, providing tools that may alleviate challenging new pest management situations such as the invasive stink bugs and bed bugs.

MMCA AWARDS COMMITTEE REQUEST FOR NOMINATIONS

The Awards Committee of the Michigan Mosquito Control Association is pleased to request nominations for the following prestigious awards:

**H. Don Newson Distinguished Service Award**

**George B. Craig, Jr. Mosquito Control Advocacy Award**

Both awards recognize the recipients for contributions to the field of mosquito control. For specifics and instructions on submitting nominations, please refer to the MMCA website and this link ([www.mimosq.org/awards.htm](http://www.mimosq.org/awards.htm)). Get in touch with Mary McCarry at mccarrym@baycounty.net if you're interested in nominating a candidate.

New Pesticide Chemical Search Makes it Easier to Find Regulatory Information on Pesticides

EPA has released Pesticide Chemical Search, a new web-based application that will allow users easy access to chemical-specific information from the Office of Pesticide Programs' website and several other important sources. Pesticide Chemical Search is designed to consolidate information related to pesticide chemicals (active ingredients), making it easier to find related regulatory and scientific information.
The use of pyrethrins and the pyrethroids has increased during the past decade with the declining use of organophosphate pesticides, which are more acutely toxic to people and wildlife than the pyrethroids. In 2009, EPA identified the pyrethroid chemicals as having a common mechanism of toxicity and has now completed a human health cumulative risk assessment for all uses of the pyrethrins and pyrethroids.

EPA's screening level cumulative assessment considers all registered uses of pyrethrins and pyrethroids and includes exposure from food, drinking water and residential settings through oral, dermal and inhalation routes of exposure. The agency considers this cumulative risk assessment to be highly conservative because it assumes that people are going to be exposed to the highest levels of residues in food, water, and in their homes all on the same day. For example, in estimating residential exposure the assessment assumed no dissipation of the chemicals, all individuals were exposed on the day of application, and exposure for each scenario occurred as a result of the pyrethroid with the highest risk estimate registered for that scenario.

The assessment also assumed co-occurrence of certain residential scenarios as worst-case situations. Even using these very conservative assumptions that likely overestimate exposure to pyrethrins and pyrethroids, estimated risks to both adults and children are well below the agency’s level of concern.

**Suspicious Device outside County Jail**

A suspicious device found outside the Burlington County Jail one morning turned out to be a mosquito trap, officials said.

A county corrections officer spotted the device about 8:40 a.m. between two trash bins about 50 feet from the jail. The report prompted the Burlington County Sheriff's Department to restrict access to the Grant Street jail and adjacent county parking lot.

Neighbors were notified of the police activity but were not ordered to evacuate, Sheriff Jean Stanfield said.
The 2012 MMCA Conference is scheduled for February 1-2, at the:

**Detroit Marriott Troy**
200 W. Big Beaver Rd.
Troy, Michigan 48084
Phone: 248-680-9797

The room rate is $125. per night, this rate is available until January 17th. You can reserve your rooms online at [www.troymarriott.com](http://www.troymarriott.com) or by calling 1-800-228-9290. Reservations can be made by phone at: 1-800-228-9290 or online at: [www.troymarriott.com](http://www.troymarriott.com) (on the home page, next to “special rates and awards” click on the +symbol and enter code: mcmcmca.

You can access the Conference Registration Information at the MMCA web-site: [http://www.mimosq.org/conference.htm](http://www.mimosq.org/conference.htm)

**Membership and Nominating Committee**

The Nominating Committee will print a ballot listing the names of nominees for the Board of Directors; you will find this in your registration packet. Please be sure to attend the General Business Meeting on Wednesday, February 2, to place your vote!

**Recertification Credits**

The Michigan Department of Agriculture has granted MMCA 6 recertification credits for the first full day of the annual conference and 3 credits for the second half-day session. Credits can be assigned to one of three categories: 7A (General Pest Management), 7F (Mosquito Control), or CORE.

**Entertainment**

MMCA 2012 Annual Conference Banquet Entertainment will be the **Rock n’ Roll, Sing along Piano Show.**

**MMCA Photo Salon**

We plan to include the photo salon as part of the evening entertainment at our MMCA conference February 1st, 2012. Please choose a few of your best shots and submit them for the photo salon. The submission deadline is January 23, 2012. We hope to have cash and prizes for photos in the categories of: mosquitoes, mosquito habitat, mosquito control, surveillance and nature/wildlife. Digital photos (the preferred format) can be submitted to Tom Wilmot via email at: twilmot@co.midland.mi.us. If you are in the paper or slide photo mode, mail photos to Midland County Mosquito Control and they can be scanned. Thanks!
## MMCA 26th Annual Conference
### Tentative Agenda

**Wednesday, February 1, 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>Registration</td>
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<tr>
<td>9:00 AM</td>
<td>Welcome – Michael Kaufman, PhD, 2011 MMCA President</td>
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<tr>
<td>9:10 AM</td>
<td>Keynote Address – Arbovirus Update – Harry Savage, PhD, CDC</td>
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<td>9:50 AM</td>
<td>AMCA Update – Jim Stark, Metropolitan Mosquito Control District</td>
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<tr>
<td>10:10 AM</td>
<td>Emergency Aerial ULV – Grayson Brown, PhD, University of Kentucky</td>
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<tr>
<td>10:30 AM</td>
<td>Mid-morning Break</td>
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<tr>
<td>9:50 AM</td>
<td>AMCA Update – Jim Stark, Metropolitan Mosquito Control District</td>
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<tr>
<td>10:30 AM</td>
<td>Mid-morning Break</td>
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<tr>
<td>11:00 AM</td>
<td>Lyme Disease Pathogen – Jennifer Sidge, MSU</td>
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<td>11:15 AM</td>
<td>Inhibition of Growth – <em>Aedes triseriatus</em> – Rebecca Morningstar, MSU</td>
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<td>11:30 AM</td>
<td><em>Aedes japonicus</em> Exploit Larval Habitats – Matthew Lundquist, MSU</td>
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<tr>
<td>11:45 AM</td>
<td>Insect Timing on Buried Carrion – Emily Pastula, MSU</td>
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<tr>
<td>12:00 PM</td>
<td>Lunch Break (on your own)</td>
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<tr>
<td>1:00 PM</td>
<td>Chemophobia: Chemical Risks and Perceptions – John Buchweitz, PhD, MDA</td>
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<tr>
<td>1:20 PM</td>
<td>Mosquito Control at NPDES Regulated Facilities – Christine Alexander, MDEQ</td>
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<tr>
<td>1:40 PM</td>
<td>Vendor Presentations</td>
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<tr>
<td>1:55 PM</td>
<td>Break</td>
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<tr>
<td>2:15 PM</td>
<td>NPDES Permitting and Pesticides – Jeff Fischer, MDEQ</td>
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<tr>
<td>2:45 PM</td>
<td><em>Psorophora</em> Population Changes - Bill Stanuszek, SCMCA</td>
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<tr>
<td>3:05 PM</td>
<td>EEE and Mosquito Surveillance – Michael Kaufman, PhD, MSU</td>
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<tr>
<td>3:20 PM</td>
<td>EEE Midland County – Tom Wilmot, PhD, MCMC</td>
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<td>3:35 PM</td>
<td>2011 Arbovirus Surveillance Bloodmeal Analysis – Betsy Brouhard, MSU</td>
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<td>3:55 PM</td>
<td>Mission of the Mosquito Research Foundation – Robert Patterson, PhD</td>
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**Thursday, February 2, 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:15 AM</td>
<td>Annual MMCA Business Meeting &amp; 2012 Elections</td>
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<tr>
<td>9:00 AM</td>
<td>Barrier Adulticide Treatments – Stephen Manweiler, PhD, MMCD</td>
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<td>9:20 AM</td>
<td>Sustainable Solutions for Global Needs – Colin Bowers, Dow Agro Sciences</td>
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<td>9:40 AM</td>
<td>Middle-London WNV Surveillance – Jeremy Hogeveen &amp; Iqbal Kalsi, MBA</td>
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<td>10:00 AM</td>
<td>Break</td>
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<tr>
<td>10:30 AM</td>
<td>Mosquito Longevity – Fiona Hunter, PhD, Brock University, Ontario</td>
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<td>11:00 AM</td>
<td>Human Landing Catch – Edward D. Walker, PhD, MSU</td>
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<td>11:20 AM</td>
<td>Unwelcome Visitors – Erik Foster, MDCH</td>
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<tr>
<td>11:45 AM</td>
<td>Efficacy of Natular in Spring Woodlots – Mary McCary, BCMC</td>
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<td>Back-to-Basics Presentations</td>
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<tr>
<td>12:00 PM</td>
<td><em>Aedes Vexans</em>: Michigan’s Number One Menace – Randall Knepper, SCMAC</td>
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<tr>
<td>12:20 PM</td>
<td>Gators along Michigan Highways – Charles Dinsmore, MCMC</td>
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<tr>
<td>12:35 PM</td>
<td>Concluding Remarks – Randall Knepper, 2012 MMCA President</td>
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EPA Releases Work Plan to Improve Evaluation of Chemicals in the Endocrine Disruptor Screening Program

EPA is releasing an overview summary of the Agency's work plan to improve the scientific methods used to evaluate chemicals that may affect the endocrine system in people and animals. This work plan relies on scientific advancements in computational modeling, molecular biology, toxicology, and advanced robotics. By incorporating these scientific advancements into evaluating chemicals under the Endocrine Disruptor Screening Program (EDSP), EPA will prioritize and screen chemicals with greater speed, efficiency, and accuracy, while minimizing the use of laboratory animals.

The work plan, referred to as EDSP21, follows recommendations made by the National Research Council (NRC) in a 2007 report on toxicity testing. Since EPA is required to complete registration review of registered pesticides by October 2022, new tools are needed to more quickly and efficiently screen and assess these pesticides. Development and validation of these new tools will be a multiyear process. As these new tools become ready for use, the EDSP will transition to rely on computational toxicology methods and high throughput screens to more quickly and cost effectively assess potential chemical toxicity while minimizing the use of conventional whole animal studies. The workplan summary describes this transition.

By way of background, EPA is required to screen pesticides and other chemicals for their potential to cause effects similar to those produced by estrogen and other natural hormones.

For more information and to read a copy of the work plan, please visit:  http://epa.gov/endo/

Progress against Malaria Despite Anti-DDT Zealots

Malaria is still one of the leading causes of death in sub-Saharan Africa, but great progress is being made. According to the organization Africa Fighting Malaria (AFM), the incidence of malaria and malarial deaths has recently fallen by over 90 percent in several southern African countries. The recent decline is no small feat, given that malaria once killed over one million people each year — mostly children under five and pregnant women. And as AFM points out, the tools for eradication of the disease do exist; the crucial step is to implement and sustain those strategies. Success thus far has been the result of residual spraying of tiny amounts effective pesticides — including DDT — in homes, the use of insecticide-treated bed nets, improved diagnosis of the disease, and improved access to malaria medications. “These tactics must be applied assiduously,” says Dr. Ross. “As we have, very unfortunately, seen before, when these measures slacken, the disease makes a resurgence.”

Twelve Southern African Development Community health ministers met to discuss how to bolster efforts to eradicate malaria. AFM advocates a focus on the tactics that have thus far been successful, but they’re concerned about the availability of DDT. Lately, availability of this important World Health Organization-approved insecticide has been falling. To counter this, AFM advises considering local formulation, as well as the possibility of alternatives that could address the increasingly urgent problem of insecticide resistance. Richard Kamwi, writing for AFM, observes that there has not been a new class of public health insecticide for almost 30 years. He would like to remedy this: “We must work urgently with our donor partners, research institutes, philanthropists and the private sector,” he says, “to develop new anti-mosquito tools to ensure people are protected from mosquitoes now and well into the future.”
As is typical for this time of year staff are busy on winter projects which include: repair and preventative maintenance of application equipment and vehicles; converting the last of the ULV sprayers from direct drive to belt drive; installing new gas tanks on all ULV units, catch basin mapping project; reviewing all long drives; performing body work on damaged vehicles; and purchasing and outfitting one new half ton vehicle for our fleet.

Our 2011 annual report has been completed and can be reviewed or printed from our website at www.scmac.org for those who are interested.

School presentations by our education department continue to be very popular. This school year our Education Coordinator has already scheduled over 170 classroom presentations at 34 schools. We have also set up educational displays at career fairs and the Mid Michigan Children’s Museum.

We have already submitted permits to conduct our aerial larviciding program for spring mosquitoes on state game areas (Shiawassee River State Game Area & Gratiot-Saginaw State Game Area) and the Shiawassee National Wildlife Refuge. Since we had significant mosquito-borne disease detections last year in our county we do not anticipate problems securing permits for 2012.

The National Pollutant Discharge Elimination System (NPDES) permit is moving closer towards its April 2012 implementation. Recent changes made to Michigan’s draft NPDES permit are very encouraging, and it appears that the final permit will be reasonable and will not restrict our programs as previously written.

In the next couple months we will begin the process of hiring seasonal staff for the upcoming season. Other projects will include revising and updating our yearly Program Plan; submitting our first NPDES permit; updating our Employee Manual; updating our webpage; and sending out letters to citizens on our No Spray list and Medical Certification list.

So far this winter has been unseasonably warm with minimum snow; which makes one wonder if this upcoming spring might be cold with above average precipitation? As we all know, only time will reveal the answer to this question.

As we celebrate the end of one year and the arrival of another, it is nice to reflect on goals accomplished and challenges survived during 2011 in preparation for the 2012 mosquito season. This past year will be remembered most for the effort devoted to NPDES and other permit issues (more on that elsewhere in this issue). Legislative issues will undoubtedly continue to keep us awake at night for some time to come. Don’t relax too much after the NPDES permits are in place; provisions of the Endangered Species Act will quite possibly become of greater concern than the Clean Water Act in the near future.

In Midland County, the memory of too many Coquillettidia perturbans and an equine EEE case will remain with us for some time to come. We will attack Midland County’s mosquitoes with extra resolve during 2012 in hopes that we don’t have to again face the EEE virus.

As always at this time of year we look forward with eager anticipation to the upcoming MMCA conference. As you will see from perusal of the agenda provided with this newsletter, it should be a productive and informative meeting. We look forward to seeing old faces and making new friends.

We wish you the best of luck in 2012.
The Holidays have passed, and though the worst of winter has yet to reveal itself, our thoughts are centered about preparations for the upcoming treatment season. Bids have been accepted for five new trucks, leaving five more from the original fleet (1997-98) to be replaced. Bids for insecticides are also soon to be examined. Work continues on a couple of building exterior projects. Our annual report is nearly ready for printing. Forms have been modified, and employee manuals updated.

Very soon, we will begin the hiring process. Fortunately, twenty of our twenty-four technician slots will be filled by returning people. Likewise, the rest of the seasonal positions are spoken for. We are pleased to welcome back an excellent crew! Some will need to re-certiﬁ; and testing will be administered by the MDA, following a full day of review (study materials having been distributed well in advance).

The MMCA conference is fast approaching, and certainly, a topic on everyone’s list will be visited: NPDES compliance! Thanks to those individuals who have spent so much time and energy on behalf of Mosquito Control, in this matter.

Happy New Year (where do they go?)! Let’s hope it’s the best one yet!

As always, we’re taken aback at the passage of time. Seems like 2011 just began and here we are watching the calendar turn to 2012. It’s once again time to both look back at our fourth quarter accomplishments and forecast the upcoming year. The season wrapped up on October 1, when we finished the last of our clean-up and hosted the second scrap tire drive of the 2011 season. In total for the year, 4,266 scrap tires were collected during two tire drives. Since then we’ve been busy with invoices, correspondence, cleaning, inventories, orders, equipment and vehicle repairs, and preparations for the 2012 season. The 2011 Annual Report has also been completed and will be presented to the Board of Commissioners as well as to the Mid-Michigan Technical Advisory Committee in March, 2012. It’s available for viewing at our website www.baycounty-mi.gov/MosquitoControl.

We happily took part in the MMCA’s 7F Training Session in October, giving several presentations to the attendees. At this, our third annual training session, there seems to be continued interest in having recertiﬁcation seminars in the future. Not only are we providing a service to others, but our own staff beneﬁts by attending and qualifying for recertiﬁcation credits.

The 2012 chemical order was compiled and bid specifications were sent out to vendors in early December in conjunction with Midland County Mosquito Control and Tuscola County Mosquito Abatement. Chemical bids will be opened in Midland on January 11 and vendors will be notified.

We continue our community-outreach efforts, which include presentations at local elementary schools and developing new information for Bay3TV. Database and map updates continue to take place. Staff members recently watched the EPA’s webinar on the new National Pollution Discharge Elimination System (NPDES) permits and look forward to the American Mosquito Control Association webinars to come.

We look forward to several presentations planned at the upcoming MMCA Conference in February regarding NPDES and how it will impact our operations. We remain optimistic after the last few stakeholder meetings that the permitting process will not be too cumbersome.

In the next few months we’ll be working on MMCA annual meeting plans, the 2012 program plan, hiring of new seasonal staff – always a challenge, following with great interest the NPDES process, updating our display board, and continuing our mission of the promotion of mosquito education. Before we all know it April and the spring treat campaign will be upon us!
Stephen Ireland is a student at Michigan State University. He is studying Entomology and works for Mike Kaufman as part of the mosquito surveillance and arbovirus testing crew.

Myles Sakshaug lives in Freeland and is a Senior at Freeland High School. He hopes to attend the University of Michigan, Hope College, or Calvin College. Myles participates in Varsity Cross-Country, Varsity Basketball, Band, Student Council, National Honor Society, and has been on the Executive Council for Students Leading Students for all 4 years of high school.