# Lake Orion Lake Association (LOLA)

Annual General Membership Meeting June 13, 2024

George Dandalides – LOLA President





### June 13, 2024 LOLA General Membership Meeting Agenda

#### **Opening Remarks:**

2023 Accomplishments & 2024 Priorities: George Dandalides

#### **Reports:**

Treasurers Report: Richard Benoit Water Quality: Mike Kellar Effect of High Energy Wake on Shoreline Erosion and Sediment: George Dandalides "Keyholing"; Non-Permitted Rental of Seasonal Dock Space: Dan Nelson

### **Guest Speakers:**

Enforcement – Pros and Cons: Mike <u>Gingell</u> (Oakland County Commissioner) Annual Weed Control Program: Steve Hanson (PLM Lake & Land Management Corp)

### **Election of Officers**

### Open Q&A

### **Closing Remarks:**

A Look Ahead in 2024 & 2025: George Dandalides



## **Opening Remarks**

George Dandalides LOLA President

## What Is LOLA?

- Lake Association for Lake Orion made up of:
  - Riparian lake property owners
  - Residents of the Lake Orion surrounding area
  - Users of the lake (daily use and marina tenants)
- Led by a volunteer board of 11 members
- Voluntary membership
- \$20 annual membership dues

## What Is LOLA?

### • LOLA's Purpose:

The Purpose of this association shall be to provide effective **communication** between its members and governmental agencies relating to all activities that may affect its members. To **promote, advocate, and protect** the best interests of the area through preservation of the natural beauty of the environment. To **support** all propositions that assists the orderly and proper development of our community in general and our immediate area in particular.

## What Is LOLA?

- LOLA Annual Activities and Community Support:
  - Maintenance and deployment of the 17 No-Wake buoys
  - Multiple seasonal water samplings w/submission to the DNR
  - Support of the Lake Orion Dragon on the Lake Event
  - Lighted Boat Parade
  - Donation to the Lake Orion Fireworks
  - The voice of the lake residents on matters that impact the lake (water quality, water safety)



## 2023 Goals and Accomplishments

### 2023 LOLA Goals & Objectives – June 26, 2023

- 1. Membership
  - 135 LOLA members in 2023
- 2. Communication
  - Began publishing a LOLA Newsletter
- 3. Lake Overcrowding (Safety)
  - Began discussion with both the Village and Township on "Keyholing"
  - Meeting w/local law enforcement to discuss boating safety initiatives



## 2024 LOLA Priorities

- Membership
  - Continue the membership drive from 2023
  - 140 members as of 6/13
- Communication
  - Continue the LOLA Newsletter
  - Redesign & relaunch of the LOLA Website <u>www.lolainfo.org</u>
- Water/Boater Safety

### www.lolainfo.org



Home About Membership News & E

News & Events Testing Results

Photos & Video Links Contact

### Welcome to Lake Orion Lake Association

The Lake Orion Lake Association (LOLA) is comprised of hundreds of lake residents and visitors who care deeply about Lake Orion. Our members support LOLA activities and actions that preserve the natural amenities of the lake, as well as the public trust.

Lake Orion is a 505 acre lake nestled in the heart of Lake Orion, Michigan, within the picturesque landscapes of northern Oakland County. Lake Orion is a captivating waterbody retreat for residents and visitors alike. With its clear water and scenic shores, Lake Orion is a haven for water enthusiasts. The lake boasts a blend of charming homes and recreational facilities, making it a desirable destination for those seeking a peaceful lakeside lifestyle. Lake Orion stands as a timeless gem within Michigans natural beauty.

The Lake Orion Lake Association is dedicated to maintaining and improving the quality of Lake Orion for the health of its residents and its fish and wildlife through monitoring and education.





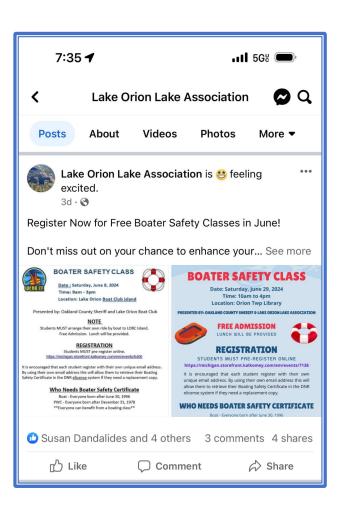
» Learn More

## 2024 LOLA Priorities

- Membership
  - Continue the membership drive from 2023
  - 126 members as of 5/27
- Communication
  - Continue the LOLA Newsletter
  - Redesign & relaunch of the LOLA Website <u>www.lolainfo.org</u>
  - Use of social media
- Water/Boater Safety



## **Use of Social Media**





## 2024 LOLA Priorities

- Membership
  - Continue the membership drive from 2023
  - 126 members as of 5/27
- Communication
  - Continue the LOLA Newsletter
  - Redesign & relaunch of the LOLA Website <u>www.lolainfo.org</u>
  - Use of social media
- Water/Boater Safety
  - Continued discussion with local law enforcement on safety issues
  - LOLA sponsored Boaters Safety course in partnership with the Oakland County Sheriff Marine Division – Saturday June 29<sup>th</sup> at the Library
  - LOLA \$500 Donation to the Lake Orion Village Police Department to purchase needed safety equipment for the village patrol boat

### **BOATER SAFETY CLASS**

Date: Saturday, June 29, 2024 Time: 10am to 4pm Location: Orion Twp Library

PRESENTED BY: OAKLAND COUNTY SHERIFF & LAKE ORION LAKE ASSOCIATION



FREE ADMISSION

### REGISTRATION

STUDENTS MUST PRE-REGISTER ONLINE https://michigan.storefront.kalkomey.com/em/events/7138

It is encouraged that each student register with their own unique email address. By using their own email address this will allow them to retrieve their Boating Safety Certificate in the DNR elicense system if they need a replacement copy.

### WHO NEEDS BOATER SAFETY CERTIFICATE



## 2024 LOLA Priorities

- Major concerns of our members:
  - Lake overcrowding
    - Keyholing
    - Issuance of marina permits by the DNR
  - Observance of No-Wake laws
    - Marked no-wake areas
    - 100 foot no-wake from any shoreline, dock, marked swim area, or other watercraft
  - High energy wake damage to shoreline and lake bottom from wake boats operating in high energy wake mode
  - Blight
    - Fallen trees in the water
    - Dilapidated docks & other structures left to deteriorate in the water

## Where Do We Need Help?

- Membership
  - Are You a Member?
- Lake Overcrowding
  - DNR/EGLE stated position is that this falls under local authority, not the state.
- Enforcement of Ordinance 50
  - No-Wake rules
  - No waterskiing, wakeboarding, tubing, and high speed operation one hour after sunset to one hour before sunrise
  - Maximum lake speed limit of 40 mph
- High Energy Wake Mode of Wake Boats
  - Support of Michigan House Bill 5532 (HB-5532 supports the DNR recommendation of 500' no-wake and 15' minimum water depth in high energy wake mode)
- Blight
  - Enforcement of the ordinances in effect in both the Village and Township

## **Treasurers Report**

Richard Benoit LOLA Treasurer

	LAKE ORION LAKE ASSOCIATION ANNUAL TREASURERS REPORT April 1, 2023 December 31, 2023	
LOLA BANK & PAY PAL	Beginning Balance - April 1, 2023	<u>\$3,079.86</u>
	INCOME - SOURCE	
	(Membership Dues & Donations)	\$5,669.05
	Total Income	\$5,669.05
	EXPENSES - PURPOSE	
	(Insurance-Liability)	\$1,248.00
	( LOLA Programs)	
	Buoys Water Quality	\$155.02 \$0.00
	(Membership General & Admin.) Postage, Newsletters, Communica- tions, Fees, Advertising, Facility rentals,Website	\$1,380.46
	(Donations) Fireworks	\$500.00
	(Fund Raising & Special Events) Dragon on the Lake Lighted Boat Parade	\$500.00
	Total Expenses	<u>\$3,783.48</u>
LOLA BANK & PAY PAL	Ending Balance - December 31, 2023	<u>\$4,965.43</u>
	Notes Board Approvals 1.Changing Iola's Fiscal period of April 1 through March 31 of the following year to match the calander year of Jan 1 through Dec 31. To help eliminate confusion resulting in payment of annual dues.	
а а.	2. Changing from Huntington to PNC bank Additional financial options.	

## Water Quality

Michael Kellar LOLA Director – Water Quality

## Water Quality – Michael S. Kellar



- In partnership with the Department Of Environment, Great Lakes, and Energy (EGLE) and Michigan State University

### Get Involved Today!

- · Join hundreds of dedicated volunteers statewide.
- . Contribute to the conservation of Michigan's 11,000 inland lakes and 36,000 miles of streams.
- · Benefit from extensive long-term water quality and habitat data.





FOR MORE **INFORMATION** 

Visit MiCorps.net

Email micorps@msu.edu

Michigan Clean Water Corps





Volunteer Lake & Stream Programs

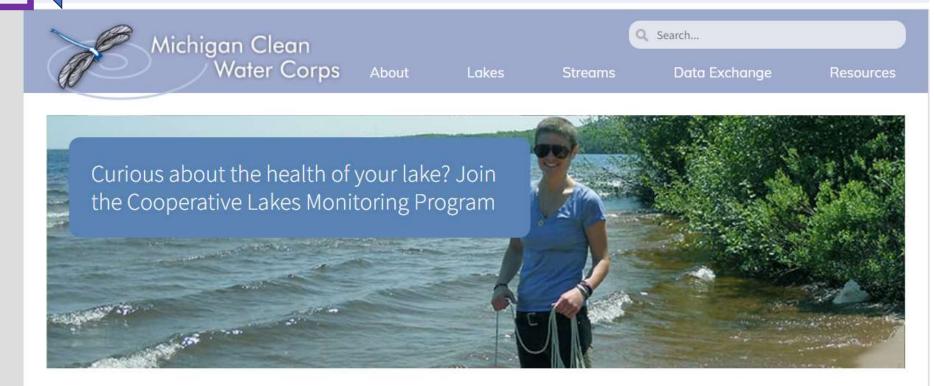
### MiCorps.net

## Water Quality – Michael S. Kellar

- What do we do exactly?
  - Spring ice thaw and Fall Phosphorus samples
  - Bi-weekly Sechhi Disk readings for water clarity
  - Monthly Chlorophyll samples lake definition
  - Monitor the lake for newly introduced invasive weed species
- What is the importance of lake sampling?
  - Helps identify new lake data trends over time
  - Helps root cause potential lake issues
  - Creates historic database
- The importance of LOLA membership
  - Membership fees directly contribute to the overall cost's associated with the lake monitoring program
  - For more information please check out <u>www.lolainfo.org</u> or <u>www.micorps.net</u>



#### **≏** micorps.net



The Michigan Clean Water Corps (MiCorps) is a network of volunteer water quality monitoring programs in Michigan. It was created through Michigan Executive Order #2003-15 to assist the Department of Environment, Great Lakes, and Energy (EGLE) in collecting and sharing water quality data for use in water resources management and protection programs. About MiCorps.



Follow us on Facebook, Instagram, and X (formerly Twitter)!

## Effects of High Energy Wake

George Dandalides LOLA President

### A Literature Review of Wake Boat Effects on Aquatic Habitat

James Francis, Joe Nohner, John Bauman, and Brian Gunderman

hoto: Myk Crawford/stock.adbe.com/File 278869352

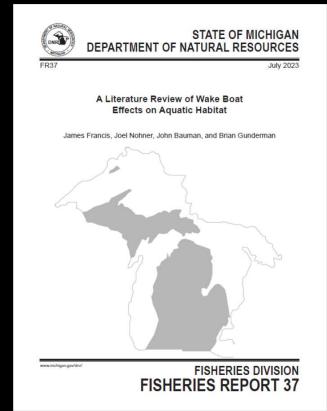
## Purpose of the report

### DOES

- Review the current state of knowledge
- Provide the Division's position on the operation of wake boats to protect aquatic resources held in public trust.
- Recommend best practices

### DOES NOT

- Address public safety or social considerations
- Provide Departmental recommendations for regulation or legislation.



## Wake boats 101



Photos: Fay et a;. 2022, Elena/stock.adbe/File 369889798, Marr et al. 2022

11

### Wake boat wave energy

### % greater than reference

500 – 1,700% (MacFarlane 2018) 300 – 900% (Marr et al. 2022) 68 - 581% (Water Environmental Consultants 2021) 400% (Gouday and Girod 2015 and Ruprecht et al. 2015) 70% (Mercier-Blais and Prairie 2014)

Source	Distance (ft)	Data type	Notes
Water Environment Consultants (2021)	100	Field data	Wake-boarding (553%) and wake-surfing (2,546%) wave energy > max. wind-wave energy.
Water Environment Consultants (2021)	100	Field data	Wave energy from wake-boarding (68%) and wake-surfing (581%) greater than cruising vessel
Ray (2020)	135	Field data	Wake boat wave 9 inches high.
Fay et al. (2022)	200	Model	Claims minimal impacts at this distance.
Water Environment Consultants (2021)	225	Model	Wave height attenuation from wake-boarding to wake boat cruising at 100ft.
Water Environment Consultants (2021)	300	Field data	Wake-boarding wave energy at 300ft similar to wake boat cruising energy at 100ft.
Goudey and Girod (2015)	300	Field data	Large waves during wake-boarding (9.87in) and wake-surfing (12.92in) in deep water.
Ray (2020)	300	Field data	Wake boat wave 7.75 inches high.
Mercier-Blais and Prairie (2014)	328	Field data	Energy of wake waves decreased significantly, but not assessed relative to typical motorboat.
Macfarlane et al. (2018)	400	Field data	Maximum wave height and energy similar to reference motorboats.
Mercier-Blais and Prairie (2014)	492	Field data	Sediment resuspension observed from wake-surfing.
Water Environment Consultants (2021)	500	Field data	Wake boarding (192%) and wake-surfing (679%) wave energy > max. wind-wave energy
Marr et al. (2022)	>575	Field data	Total wave energy similar to reference motorboat at 200 ft.
Marr et al. (2022)	>600	Field data	Total wave power similar to reference motorboat at 200 ft.
Mercier-Blais and Prairie (2014)	656	Field data	Sediment resuspension observed from wake-boarding.
Mercier-Blais and Prairie (2014)	675–938	Model	Wake boat waves equivalent to normal conditions for sediment resuspension
Mercier-Blais and Prairie (2014)	879–1023	Model	Wake boat waves equivalent to normal conditions for turbulent kinetic energy
Water Environment Consultants (2021)	950	Model	Wake-surfing wave height attenuation to typical boat at 100ft.
Mercier-Blais and Prairie (2014)	984	Model	Modeled complete dissipation of wake boat waves.
Ray (2020)	1,000	Field data	Wake boat wave 4 inches high.

Considered for minimal resource impact assessment

Not considered for minimal resource impact assessment

10 5

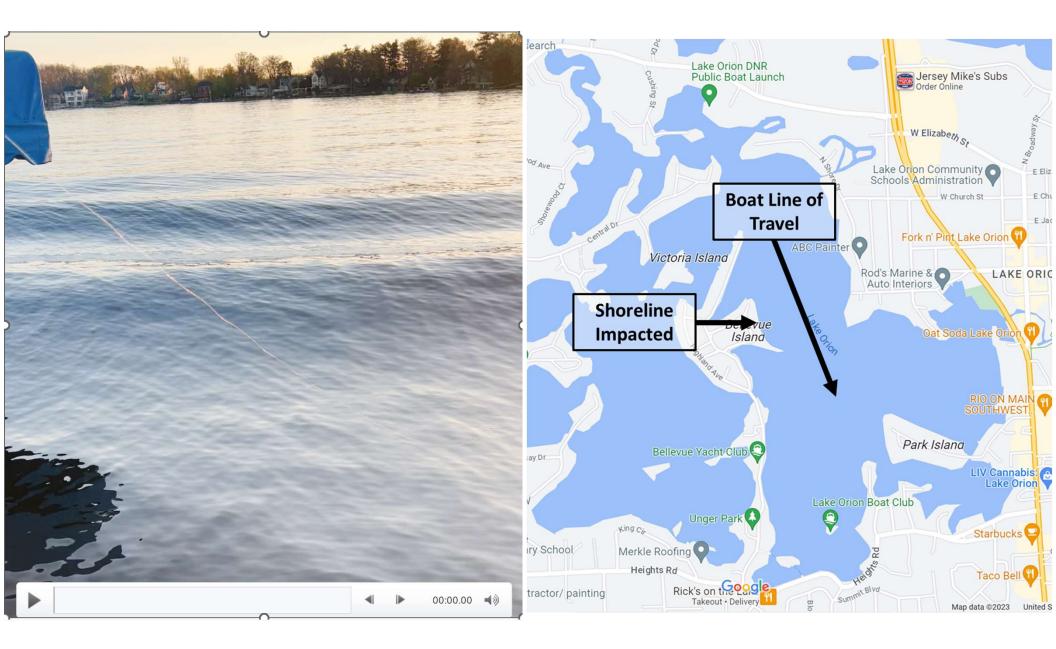
### Recommendations

Best operating practices under which the recreational opportunities that wake boats provide can be enjoyed in a manner that minimizes harm to the natural resources and property of Michigan citizens

1. Boats operating in wake-surfing mode or wake-boarding mode, during which boat speed, wave shapers, and/or ballast are used to increase wave height, are recommended to operate at least 500 feet from docks or the shoreline, regardless of water depth.

2. Boats operating in wake-surfing or wake-boarding modes are recommended to operate in water at least 15 feet deep.

3. Ballast tanks should always be drained prior to transporting the watercraft over land.





## Michigan House Bill 5532 Sponsored by Rep. Julie Rogers

We are pleased to announce that HB 5532 was introduced on February 28, 2024 by Michigan State House <u>Representative Julie Rogers (D) Kalamazoo</u> with bipartisan support. It will require watercraft in "wake sport mode" to be 500 feet or more from a shore or dock and at a depth of 20 feet or more. Rep. Rogers is a friend to Michigan's environment and has introduced or co-sponsored several bills this session dealing with issues that impact Michigan's inland waterways.

MLSA applauds Rep. Rogers and the bipartisan co-sponsors who recognize the impact that wakes from such vessels have on shoreline erosion, damage to shoreline structures, bottomland/vegetation degradation, and destruction of fisheries.

## Michigan House Bill 5532

- HB 5532 doesn't attempt to kill the sport.
- It puts some limitations around it similar to other sports:
  - Specific hunting seasons and hunting areas
  - Fishing limitations on species, size, season, and fishing locations
  - Off-road vehicles
  - Other watercraft laws
- HB-5532 simply puts some thought around the sport in consideration of ecology and the preservation of our natural resource.

## Michigan House Bill 5532

- Where do we go from here?
- HB 5532 currently under consideration in Lansing
- Contact our Michigan 54<sup>th</sup> District Representative Donni Steele with your concerns (Pros and Cons) @ <u>donnisteele@house.mi.gov</u>

## **"Keyholing"** Dan Nelson LOLA Director

## Lake Overcrowding & Dock Usage

- Seasonal rental of dock space to non-residents
- Commonly referred to as "Keyholing"
- One of the top concerns brought forward by LOLA members
- Residents renting dock space or allowing the use of their dock by nonlake residents is a contributor to the overcrowding issue.

## Is It Legal?

- Individuals renting dock space or allowing the use of dock space to non-lake residents without a marina permit issued by the DNR /EGLE are in violation of Michigan law.
- Extended use of dock space by friends and relatives requires a DNR marina permit.
- In short, any boat moored to a dock for an extended period needs to be registered to the property owner.

## Definition of a Marina

Natural Resources Environmental Protection Act (NREPA) Key definitions, found in the NREPA, are helpful in understanding the EGLE's position: Subsection 3001 (j) of Part 301:

"Marina" means a facility that is owned or operated by a person, extends into or over an inland lake or stream and offers service to the public or members of the marina for docking, loading, or other servicing of recreational watercraft.

If ticketed, it is a misdemeanor and punishable by ninety days in jail.

## Can Individuals Be Fined?

Lake residents renting dock space or extended use of dock space by friends and relatives (money or not) could be fined \$500.00 by the DNR/EGLE for operating an illegal marina.

# Liability Concerns: Personal Injury/Property Damage

Individuals renting or allowing use of their docks by others should check with their homeowner's insurance to determine their liability exposure.

## Overcrowding

- Overcrowding on Lake Orion is a critical concern for lake residents.
- Overcrowding is a concern for potential boating safety and creates a higher risk of accidents.
- Individuals illegally renting dock space or those allowing use of their dock space by others is a contributor to lake overcrowding.
- Boating safety should be a concern for all lake residents.

## **Reporting Violations**

- Call the Department of Natural Resources @ 517-284-6000 (RAP)
- All calls are treated as anonymous.

# Enforcement – Pros and Cons

## Mike Gingell Oakland County Commissioner

# Annual Weed Control Program

## Steve Hanson PLM Lake and Land Management Corp.



Steve Hanson, MS Fisheries Senior Regional Manager PLM Lake & Land management Corp.

### Lake Orion Aquatic Plant Management Program Goals

Restore & Maintain the Recreational, Aesthetic & Economic Values of the Lake While Preserving and Protecting the Ecological Health

The Two Most Important Factors in Lake Health:

Water Quality (nutrient levels) Aquatic Plant Community (exotic vs native species)

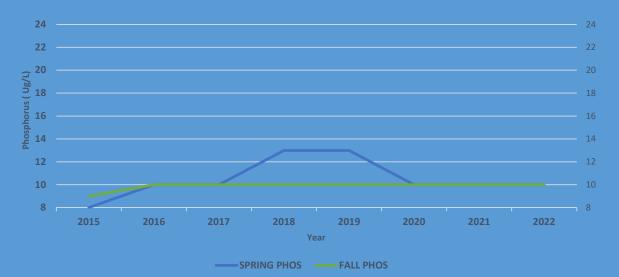
#### **Questions About Aquatic Plant Control Methods**

What are the Options Herbicide Safety / Permitting Post Treatment Restrictions Concerns About Exposure to Treated Water

### WATER QUALITY

#### Common Misconception: Aquatic plant management will increase nutrient levels & decrease water clarity

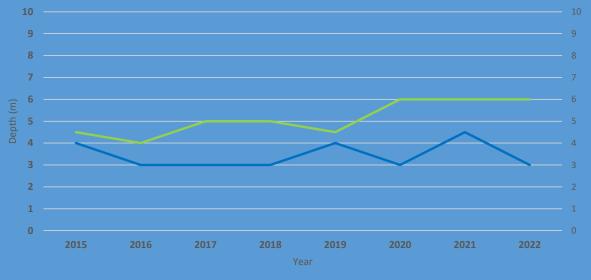
#### Lake Orion Phosphorus Sampling Levels 2015-2022



## WATER QUALITY







SPRING S FALL S

## **Aquatic Plant Community**

#### **Exotic vs. Native**

#### **EXOTIC SPECIES**



Eurasian watermilfoil



#### Curlyleaf pondweed

#### **NATIVE SPECIES**



Starry stonewort



Wild Celery



Illinois pondweed



Chara

## **Aquatic Plant Community**

LAKE ORION AQUATIC PLANT TRENDS 2015-2022

### **Aquatic Plant Management**

#### After Identifying Problem Species, What Are the Options

#### Aquatic Herbicides vs. Mechanical Harvesting





### Aquatic Plant Management

Herbicide Safety / Permitting

#### Are aquatic herbicides safe?

"at tested and approved concentrations for aquatic use, theses herbicides have been deemed to not have adverse effects on humans and aquatic wildlife either by submergence in treated water or by ingestion".

https://ag.purdue.edu/btny/Extension/PublishingImages/Aquatic Herbicides.m4v

Are aquatic herbicides regulated in the State of Michigan?

Can we swim after a weed treatment?

How do you Decide Which Herbicides to Use?

# Election of Officers 2024 – 2025 Season

#### 2024 LOLA Annual Election Ballot

Officers (One vote per Officer)	2024 Slate	Vote	Nominations	Vote ✓
President-Elect	Dan Nelson			
Secretary	?			
Treasurer	Pam Dipple			2

Two Year Directors	Jim Barry		
(One vote per Director)	Rick Dipple		
	?		
One-Year Director	?		
(One vote per Director)		 s	

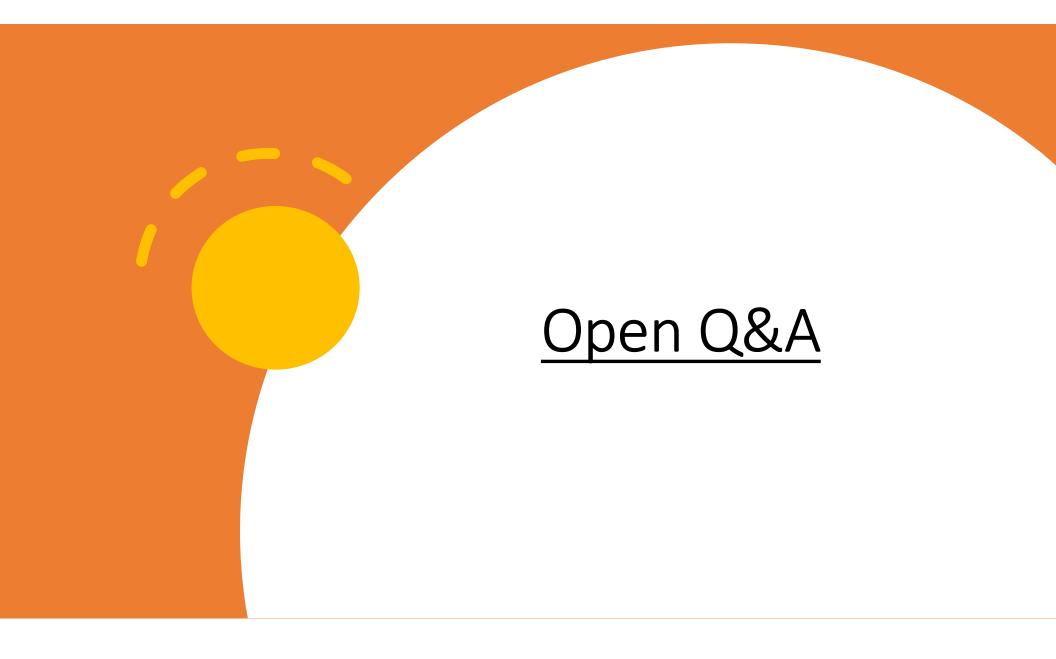
Standing Officers & Directors				
President	George Dandalides			
Past President	Dino Serraiocco			
Standing One Year	ng One Year Pat Belanger			
Directors	Mike Keller			
	Amy Michajlyszyn			

Pending Nominations: Linda Crane, Michelle Dumeah, and Lesley Rotole



# Special "Thank-You"

Jerry Richards Richard Benoit Chris Brouwer Tom Patterson



# **Closing Remarks**

George Dandalides LOLA President

# Thank You!