

# CADC Magazine

Summer 2025

The official  
magazine of  
the Canadian  
Association of  
Diving Contractors

## NO MORE EXCUSES: Criminal Accountability in Commercial Diving



### INSIDE:

Capturing  
the Reality of  
Commercial Diving  
on the Silver Screen

How We Can  
Overcome the  
Shortage of  
Occupational Divers

The Challenge  
of Telling Our  
Underwater  
Story



**SURFACE SUPPLIED**

**MOD-1**

Please contact your authorized KMDSI dealer



Please contact your authorized KMDSI dealer Kirby Morgan | 1430 Jason Way Santa Maria, California 93455 Phone: 805-928-7772  
© MMXXV Kirby Morgan Dive Systems, Inc. All rights reserved. www.kirbymorgan.com ® Registered Design Trademark, U.S. Patent Office, EU and other foreign Registrations. U.S. and foreign patents have been issued for these products.

**CDF Monkey Heaters Brand** is proud to introduce the newest model to our line of Divers Hot Water systems.

The PWH 500R25

The 500R25 unit can produce hot water for all your deeper diving operations. Equipped with a 1.9 CM (3/4") Sch 80 coil. The system has a built-in 94 (25 Gallon) Liter reserve. The system is prewired to accept a Remote Switch Panel. Twin fuel filters with drains that can be serviced while the system is running. A 94-liter (25 Gallon) Fuel Tank with low fuel level alarm that can also be Remotely located. All our systems are capable of remotely mounted switch panels.



Approximately 94 CM wide X 182 CM long 816 KG  
36 In wide X 60 In. long 1800 Lbs.

## **CUSTOM DESIGN & FABRICATION LTD.**

Please contact us for more information

[Arnie@cdf.ltd](mailto:Arnie@cdf.ltd) [Brian@cdf.ltd](mailto:Brian@cdf.ltd)

[www.monkeyheater.com](http://www.monkeyheater.com)

Arnie 856-905-2987 or Brian 856-404-5375

**BROCO**



**STANLEY**  
Infrastructure



**Ansell**

VIKING™  
HAZTECH



**Fibron**  
DIVING  
UMBILICALS

**EARTEC**  
UltraLITE



**Hydroweld**



**Exodus International**



**CYGNUS**  
INSTRUMENTS



**MIKO**  
MARINE AS



MONKEY HEATERS



**ALKIN**  
COMPRESSORS



**AXSUB®**

## Equipments for the Commercial Diving Industry

- ✓ **AXSUB®** Video Recording, Depth Monitoring & Communication Systems
- ✓ **AXSUB®** Video & Comm Cables, Underwater Cameras & Dimmable 24VDC LED Lamps
- ✓ **KIRBY MORGAN®** Diving Helmets, BandMasks® and Spare parts
- ✓ **BROCO®** Underwater Cutting & Welding Electrodes, Torches and Spare parts
- ✓ **FIBRON** Twisted Diving Umbilicals, Cables, Hoses & Connectors (meet the CSA Z275.2)
- ✓ **ALKIN COMPRESSORS** High Pressure Compressors, Air Filtration & Spare parts
- ✓ **NUVAIR** Low/High Pressure Compressors, Gas Analyzers & Air Filtration Systems
- ✓ **SPITZNAS, CS UNITEC, HYCON and STANLEY®** Underwater Hydraulic & Pneumatic Tools
- ✓ **DiveWise Equipment & Caviblaster** Cavitation Cleaning Machines & Parts
- ✓ **MONKEY** Hot Water Units & Spare Parts
- ✓ **NORTHERN DIVER** Hot Water, Dry & Contaminated Water Suits
- ✓ **SUBSALVE®** Underwater Lift Bags (Flotation & Salvage)
- ✓ **CYGNUS INSTRUMENTS** Ultrasonic Thickness Gauges
- ✓ **NEMO POWER TOOLS** Underwater Battery Operated Tools
- ✓ **MIKO MARINE** Magnets & Emergency Response Bags
- ✓ **HYDROWELD** Underwater Welding Electrodes
- ✓ **EXODUS INTL.** Underwater Exothermic Cutting Electrodes
- ✓ **BIRNS AQUAMATE™** Underwater Connectors & Cables
- ✓ **SONETICS® & EARTEC®** Wireless Communication Systems
- ✓ **OCEAN TECHNOLOGY SYSTEMS (OTS)** Communication Systems & Spare parts

**KIRBY MORGAN**



**SPITZNAS**



**UNITEC** Power Tools

**DITEQ**  
DIAMOND TOOLS & EQUIPMENT



**HYCON**



**Nuair**



**NORTHERN DIVER**



**BIRNS Aquamate™** LLC



**WE ARE THE LARGEST CANADIAN STOCKING DEALER FOR COMMERCIAL DIVING EQUIPMENTS!**

No 25% tariff on USA manufacturing goods already in stock in Canada

[www.commercialdivingsupplies.com](http://www.commercialdivingsupplies.com)

112 Montee Industrielle, Rimouski, QC, Canada G5M 1B1  
sales@axsub.com +1.418.731.1539 [www.axsub.com](http://www.axsub.com)

**AXSUB®**

Canadian Manufacturer of Video Recording System with optionnal Electronic Diver Depth Monitoring, Communication Systems, Underwater LED Lamps & Cameras.

Made in Canada

MEMBER  
CADC





**CADC Magazine  
Published for:**

The Canadian Association of Diving Contractors  
33 – 5490 Glen Erin Drive  
Mississauga, Ontario L5M 5R4  
Doug Eley, P.Eng., Executive Director  
Phone: (905) 542-7410  
delsey@cadc.ca  
www.cadc.ca

**Printed by:**

Matrix Group Publishing Inc.  
309 Youville Street, Winnipeg, MB R2H 2S9  
Toll-free: (866) 999-1299 Toll-free fax: (866) 244-2544  
sales@matrixgroupinc.net  
www.matrixgroupinc.net  
Canada Post Mail Publications  
Agreement Number: 40609661

**President & CEO**

Jack Andress

**Operations Manager**

Shoshana Weinberg  
sweinberg@matrixgroupinc.net

**Senior Publisher**

Jessica Potter  
jpotter@matrixgroupinc.net

**Publishers**

Julie Welsh, Christine Scarisbrick

**Editor-in-Chief**

Shannon Savory  
ssavory@matrixgroupinc.net

**Editor / Social Media Manager**

Jenna Collignon / Paul Adair

**Finance / Administration**

Lloyd Weinberg, Nathan Redekop  
accounting@matrixgroupinc.net

**Director of Circulation & Distribution**

Lloyd Weinberg  
distribution@matrixgroupinc.net

**Sales Manager**

Jeff Cash

**Sales Team Leader**

Colleen Bell

**Matrix Group Publishing Inc. Account Executives**

Colleen Bell, Jackie Casburn, Chandler Cousins, Rich Cowan, Rob Gibson, Jim Hamilton, Frank Kenyeres, Sandra Kirby, Andrew Lee, Brian MacIntyre, Chad Morris, Lynn Murphy, Wilma Gray-Rose, Monique Simons

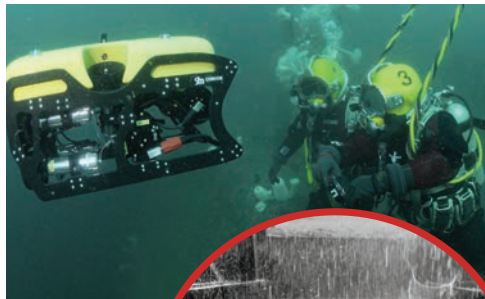
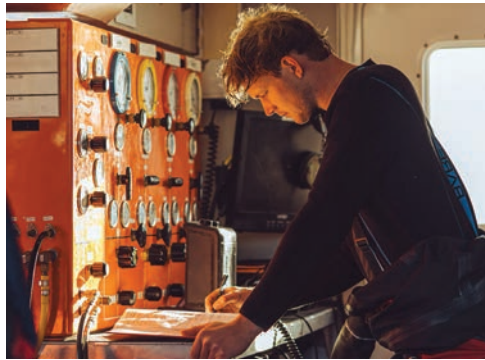
**Advertising Design**

James Robinson

**Layout & Design**

Kayti McDonald

©2025 Matrix Group Publishing Inc. All rights reserved. Contents may not be reproduced by any means, in whole or in part, without the prior written permission of the publisher. The opinions expressed in this publication are not necessarily those of Matrix Group Publishing Inc. Printed in Canada.



**UP FRONT**

- 7** A Message from the President of the CADC
- 9** Notes from the Executive Director of the CADC
- 10** Why You Should Be a Part of the CADC
- 11** Become a CADC Member

**ON THE COVER**

- 15** No More Excuses: Criminal Accountability in Commercial Diving

**FEATURE STORIES**

- 19** Capturing the Reality of Commercial Diving on the Silver Screen
- 23** How We Can Overcome the Shortage of Occupational Divers?
- 25** The Challenge of Telling Our Underwater Story
- 27** Choosing a Diving Company

**CADC MEMBER PROJECT SPOTLIGHT**

- 29** ODS Marine Construction: Anchored in Excellence

**IMAGES OF INNOVATION**

- 32** Our Members at Work

**NEWS**

- 35** CSA Standard Z275.2: Occupational Safety Code for Diving Operations
- 37** When Is It a Commercial Dive?
- 39** CADC Membership Listings
- 42** Index to Advertisers

ON THE COVER: CADC promotes professionalism, safety, and standards to build a culture of compliance. But that culture must be lived out on every jobsite, each and every day. Photo courtesy of Canada Pump & Power.

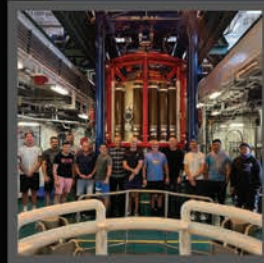
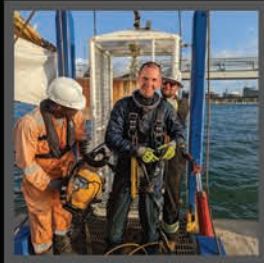


## Inshore & Offshore Full-Scope Solutions

- ✓ Commercial Diving
- ✓ ROV Services
- ✓ Subsea Engineering
- ✓ Project Management

# DEEPSIX

## S U B S E A



## REDEFINING SUBSEA EXCELLENCE

With over 50 years experience, DEEPSIX delivers expert subsea support - your full-scope partner for safe, efficient, and high-quality underwater operations.



Canada

+1-780-913-1260

U.K.

+44-7549-648816



More Information

[www.deepsixsubsea.com](http://www.deepsixsubsea.com)



Ryan Anderson, CADC President

Our new Tiered Membership System is built to reflect capability – not just cashflow. Whether you're doing dam inspections with a single four-person crew or installing pipelines with a staff of 40, your tier will now reflect what you actually do out there in the water. And that's what matters – contractors need to know what you are capable of.

## A System That Reflects Who We Are

**We've come a long way** since the early days of the Canadian Association of Diving Contractors (CADC). Back when we started out, the association was a small community of divers and contractors who shared a handshake and a belief in doing things right and our two membership categories – Contractor and Major Contractor – fit the bill.

It was simple and it worked... right up to the point that it didn't.

Today's Canadian commercial diving industry is a different beast than it was back in 1982. We have small operators running tight, efficient outfits doing high-skill work in shallow water, and we've got national contractors managing multi-million-dollar infrastructure projects with fleets of trucks and full-time crews. The old two-tier system simply didn't reflect that diversity. It flattened us out and made us all look the same when we clearly aren't the same.

So – like our industry – we have evolved and changed the way we are doing things.

Our new Tiered Membership System is built to reflect capability – not just cashflow. Whether you're doing dam inspections with a single four-person crew or installing pipelines with a staff of 40, your tier will now reflect what you actually do out there in the water. And that's what matters – contractors need to know what you are capable of.

So, we made it easy.

But we didn't build this system in a vacuum, and we took a page from the Association of Diving Contractors International (ADCI) model – because it's a system that works.

Small companies pay less; big companies pay more, and it's still incredibly reasonable: dues across all tiers are under 0.05 per cent of your declared annual revenues. For most of us, that's less than the cost of a plane flight across Canada – or definitely a night at the bar after a long project.

But the real value isn't in the price. It's in the purpose.

Here's what this structure gives us:

- **A true reflection of capability:** Your membership tier tells the world what level you operate at. It's recognition, plain and simple.
- **A system that helps everyone:** Larger companies carry a bit more weight. That support helps smaller and emerging contractors grow. That's how we strengthen the industry – not just the individual.
- **A more sustainable and forward-looking CADC:** With this model, we can continue to push safety, promote the CSA dive standards, and represent your voice where it counts – at regulatory tables, in boardrooms, and in the field.

And let's be clear – CSA Z275.2 and Z275.4 compliance remains the floor for contractor membership. That's our shared baseline. No compromise there.

This isn't just a bookkeeping change. It's a signal to the industry that CADC is serious about representing reality. About showing who our members are – not just what they pay.

Thank you for standing with us. Thank you for helping to build something better. Let's keep moving forward.

## Update Your Mailing Details!

CADC members, you can update your mailing details to receive upcoming issues of CADC Magazine by emailing [distribution@matrixgroupinc.net](mailto:distribution@matrixgroupinc.net).

Non-members, you can be added to the mailing list by going to [www.cadc.ca/cadcmag](http://www.cadc.ca/cadcmag).

*Note: we do not mail outside of Canada and we may limit the number of free sign-ups for non-CADC members.*





# PERFORMANCE INFLATABLES™

## ENGINEERED INFLATABLES



# AEF

A Performance Inflatables Company

### LIQUID CONTAINMENT

- LIQUID CONTAINMENT FOR FUEL & WATER
- BERM LINERS
- EMERGENCY WATER DISTRIBUTION SYSTEMS
- AIR CUSHION VEHICLE SKIRTS

[www.AEF-Performance.com](http://www.AEF-Performance.com)



# SUBSALVE

A Performance Inflatables Company

### BUOYANCY INFLATABLES

- UNDERWATER LIFTING BAGS
- AIRCRAFT LIFTING BAGS
- WATER LOAD TESTING BAGS
- UNDERWATER EOD SYSTEMS

[www.Subsalve.com](http://www.Subsalve.com)



# AERÉ

A Performance Inflatables Company

### DOCKING SOLUTIONS

- INFLATABLE/DEFLATABLE FENDERS
- STANDARD & CUSTOM FENDER COVERS
- INFLATABLE DOCKS & PLATFORMS
- DOCKING KITS & LINES

[www.AereDockingSolutions.com](http://www.AereDockingSolutions.com)



PHOTO CREDIT: DougElsey.com



Doug Elsey, P.Eng.  
CADC Executive Director

Costello's Lifetime Achievement Award is richly deserved, and a reminder that leadership isn't always loud. Sometimes it just has to be steady, persistent, and unshakable.

**If there's one throughline** in this issue of *CADC Magazine*, it's this: excuses in our industry are not tolerated. This theme is reflected in every article you'll read here. From criminal court rulings to offshore emergencies, from diver shortages to legacy preservation – this issue is a wake-up call.

#### In the pages of CADC Magazine

In our cover feature, *'No More Excuses: Criminal Accountability in Commercial Diving Starts Now,'* we break down a recent ruling where a site supervisor's negligence resulted in a young worker's death – and a three-year prison sentence. This wasn't an offshore dive gone wrong but make no mistake – regardless of sector – if you're in a position of responsibility and fail to follow safety standards, the consequences can be criminal, and you can end up in jail.

In *'Capturing the Reality of Commercial Diving on the Silver Screen,'* Dennis Barrington peels back the curtain on a major saturation diving film to reveal a sobering reality: emergencies offshore don't wait for permission. When the lights go out and a diver's lifeline is severed, it's the training and decision-making of the people on site that saves lives.

We shift gears with a feature from Diving Certification Board of Canada CEO, Tracy Childs, who brings us the sombre numbers we can't ignore – that almost half of our newly certified divers leave the industry within two years. Her article stresses how we need to rethink how to support divers through their early careers, how to make their work sustainable, and how we help qualified people return to the industry when they're ready.

In *"The Challenge of Telling Our Underwater Story"*, Author Vickie Jensen captures the heart of British Columbia's subsea legacy. From HYCO's Pisces submersibles to Phil Nuytten's Deep Rover, Canada's westernmost province punched well above its weight in global undersea innovation. We need to invest in preserving that story before it slips below the surface.

In our Member Spotlight, we meet ODS Marine, an Ottawa-based company that exemplifies what it means to operate

safely, smartly, and with pride. Their barge systems, dive crews, and project scope show the kind of technical capability Canadian contractors bring to the table, as well as the culture of mentorship that keeps divers in the industry for the long haul.

Jonathan Chapple then offers us a look ahead at the upcoming next edition of Canada's diving safety code. And it's not just a refresh: with new sections on risk assessment, diving in currents, human factors, and the long-overdue formal definition of an underwater construction site, the *CSA Standard Z275.2* standard is evolving to meet modern challenges. These aren't theoretical changes – they're the backbone of how we operate safely and legally.

We also take a moment to honour one of our own, Glen Costello, and pay tribute to a man who led with integrity, fought for safer diving practices, and left a legacy that shaped both the Canadian Association of Diving Contractors (CADC) and Canada's commercial diving standards. Costello's Lifetime Achievement Award is richly deserved, and a reminder that leadership isn't always loud. Sometimes it just has to be steady, persistent, and unshakable.

#### Looking ahead

So where does that leave us?

Right here, in a moment of reckoning – and the opportunity to raise the bar, to train better, to supervise better, and to demand more from us and the people who hire us. To do our job safely, we need to make it safer.

Because the next time a diver's life is in your hands, there won't be time to Google a dive standard or regulation. You'll either know what to do – or you won't. The difference isn't just professional; it's personal, it's legal, and it can mean the difference between life and death.

As an association, CADC will keep promoting professionalism and safety. But this isn't about policy. It's about education. It's about people. People like Glen. People like your divers. People like you.

Have a successful and safe summer, one where everyone comes home at the end of the dive!



## Why You Should Be a Part of the CADC

“CADC is the glue that binds the occupational diving community across Canada,” says Doug Elsey, Executive Director of the CADC.

CADC was formed in 1982 because regulators and government legislators did not and do not want to talk to individuals – they want to talk to organized groups representing the industry. The safety standards that govern your operations today are a result of past CADC members doing their job in “getting it right” so that we have a safe and workable industry today.

Safety, according to Elsey, is one of the most important issues in an industry that can be both dangerous and physically demanding. The CADC acts as a unifying body, able to communicate effectively across Canada and beyond. The CADC acts as a watchdog for the industry and keeps a constant eye on regulations and standards. Because of their

diligence in monitoring these standards and regulations for commercial diving across Canada, the industry has become a much safer place.

As a member, you are adding to the voice that is the CADC, effectively allowing the industry to be heard, especially when it comes to lowering insurance rates.


Some of the benefits CADC membership offers are:

- Constant communications on jobs coming up that you may be interested in bidding on. This is done weekly or biweekly as we send out tender information across Canada.
- Information available on our website ([www.CADC.ca](http://www.CADC.ca)) and the CADC-sponsored website, [www.UnderwaterJOBS.com](http://www.UnderwaterJOBS.com).
- The JOBS website ([www.UnderwaterJOBS.com](http://www.UnderwaterJOBS.com)), where you can post jobs and look for qualified people.

Check out our members at [www.CADC.CA/members](http://www.CADC.CA/members)

- The members’ mail-list server that allows you to instantly contact ALL of the members when you need advice, gear, personnel, etc.
- Diving insurances exclusively for CADC members – backed by Lloyd’s Brokers and others who know the diving industry.
- Reduced rates on gear from our associate members.
- This very magazine, with articles on companies, jobs, safety, etc., to keep you informed.

Not everyone can join CADC. Those members who apply have to agree AND demonstrate that they operate in a safe working environment. One cannot join by simply filling in the form – you have to have a demonstrated level of safety and competence in operations to CSA Standards 275.2 (Operations) and CSA 275.4 (Competency).

For more information, please check out our website at [www.cadc.ca](http://www.cadc.ca) or e-mail: [info@cadc.ca](mailto:info@cadc.ca). We look forward to hearing from you! 



## CADC Membership Tiers and Categories

### The following tier and membership

categories reflect the scope, capability, and professional role of Canadian Association of Diving Contractors (CADC) members in Canada’s underwater infrastructure sector. This new structure helps clients and stakeholders better understand the capabilities, technologies, and project scopes of CADC-affiliated contractors.

All members are required to comply with CSA Z275.2 (Diving Operations) and Z275.4 (Competency) standards as a minimum. (Declaration of Tier Memberships level is up to the discretion of the member.)

#### Tier 1 Contractor: Foundational Infrastructure Specialists

These are smaller, agile commercial diving firms delivering essential underwater services such as inspections, light construction, repairs, and salvage in lower-risk or shallow-water environments. They are often

first responders for local infrastructure support – professional cost-effective, and fully CSA compliant.

#### Tier 2 Contractor: Established Mid-Scale Operators

Well-equipped and experienced, these contractors handle more demanding projects including marine construction, underwater asset maintenance, and ROV-supported inspections. They bridge foundational work and advanced operations, with the systems, teams, and resources to work safely and efficiently in complex conditions.

#### Tier 3 Contractor: Technical Project Drivers

These large-scale commercial diving companies are equipped for high-risk, high-complexity work. From mixed-gas and bell diving to advanced ROV deployments, they bring engineering support and full project management capabilities

to offshore, industrial, and major infrastructure projects across Canada and internationally.

#### Tier 4 Contractor: Pioneers and Industry Leaders

Operating at the cutting edge, these firms deliver the most complex and critical underwater infrastructure projects – from deepwater oil & gas support to nuclear inspections and subsea robotics. They set the benchmark in technology, safety, and innovation, often exceeding CSA and international standards.

#### Associate Member: Industry Supporters and Service Providers

Organizations that support commercial diving operations by supplying equipment, services, training, or infrastructure support. This includes manufacturers, consultants, public institutions, and commercial diving schools – all of whom play a vital role in maintaining

safe and effective underwater operations.

#### Individual Professional: Independent Experts and Consultants

Highly skilled professionals – engineers, instructors, supervisors, or specialists – who contribute their expertise to the industry. They support CADC’s mission, promote CSA standards, and help raise the bar on safety, competency, and professional excellence.

#### Supporting Member: Allied Agencies and Institutional Partners

Includes government regulators, military branches, academic institutions, and national bodies that do not perform commercial diving work but actively support the industry. These members offer insight, oversight, and collaboration in shaping Canada’s safe and professional underwater environment.



**CANADIAN ASSOCIATION OF DIVING CONTRACTORS**

**MEMBERSHIP APPLICATION / RENEWAL**

Please check category and mail / email with remittance to:

**CANADIAN ASSOCIATION OF DIVING CONTRACTORS**

Mailing Address: CADAC / Mr. Doug Elsey, P.Eng (Exec. Director)  
5490 Glen Erin Drive- #33, Mississauga, Ontario, Canada L5M5R4  
Phone: (905) 542-7410  
Email: info@cadac.ca Website: www.CADC.CA

**Make check payable to:**

Canadian Association of Diving Contractors  
Or contact "info@CADAC.CA" for PayPal, Bank Transfer Information

CATEGORY	GROSS ANNUAL REVENUE OF COMPANY <i>Sales derived from underwater related operations only</i>	DUES
<input type="checkbox"/> T1 CONTRACTOR W/REVENUES TO \$1M		\$850
<input type="checkbox"/> T2 CONTRACTOR W/REVENUES TO \$1M - \$2M		\$1350
<input type="checkbox"/> T3 CONTRACTOR W/REVENUES TO \$2M - \$4M		\$2500
<input type="checkbox"/> T4 CONTRACTOR W/REVENUES TO \$4M - PLUS		\$3500
<input type="checkbox"/> ASSOCIATE MEMBER (SCHOOLS,SUPPLIERS, CONSULTANTS) (NON VOTING)		\$650
<input type="checkbox"/> INDIVIDUAL PROFESSIONAL (NON VOTING)		\$250
<input type="checkbox"/> SUPPORTING MEMBER		\$1000

Please complete form and provide a Business Card for all contacts in your organization.

**Application Information:**

Company: \_\_\_\_\_ (a subsidiary of: \_\_\_\_\_)

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ Prov/State: \_\_\_\_\_ Country: \_\_\_\_\_ PCode/Zip: \_\_\_\_\_

Area Code: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Website: \_\_\_\_\_

Company Contact 1: \_\_\_\_\_ Title: \_\_\_\_\_

Email Address: \_\_\_\_\_ Direct Line: \_\_\_\_\_

Company Contact 2: \_\_\_\_\_ Title: \_\_\_\_\_

Email Address: \_\_\_\_\_ Direct Line: \_\_\_\_\_

Business Founded: \_\_\_\_\_ CADAC Member since: \_\_\_\_\_ # of Employees: \_\_\_\_\_

**General Description of the Business:**



**CANADIAN ASSOCIATION OF DIVING CONTRACTORS**  
**PROCESSING INFORMATION FOR APPLICATION**  
**(NEW OR RENEWALS)**

We declare that revenues derived for the preceding 12 months fall into the category of \_\_\_\_\_ (see Membership Dues Structure on preceding page) and will tender our payment of via check / remittance for the sum of \$\_\_\_\_\_.

**Make check payable to:**  
Canadian Association of Diving Contractors  
Or contact "info@CADC.CA" for PayPal, Bank Transfer Information

If approved for membership in the Canadian Association of Diving Contractors, I pledge to foster safety in all in all areas of activity; to comply with all regulations as set out by the authority having jurisdiction and to observe as a minimum, standards identified in current CSA Z275.2 Occupational Safety Code for Diving Operations + CSA Z275.4 Competency Standard for Diving Operations, and Safety upgrades to the standards as approved by the Board of Directors; to maintain high standards with regard to business ethics, employee relations, the public image of the underwater industry; and further understand that the By-laws of CADDC permit investigation of reported violations and, if deemed necessary, possible termination of membership.

Company: \_\_\_\_\_

Signature of Company Officer: \_\_\_\_\_ Title: \_\_\_\_\_

For completion by the first-time applicants and applicants re-applying after a three year lapse. If applying for General Membership at least two of the following references should be from current CADDC General Members. New members may require additional trade information or proof of good standing from their compensation board if requested by CADDC for membership approvals.

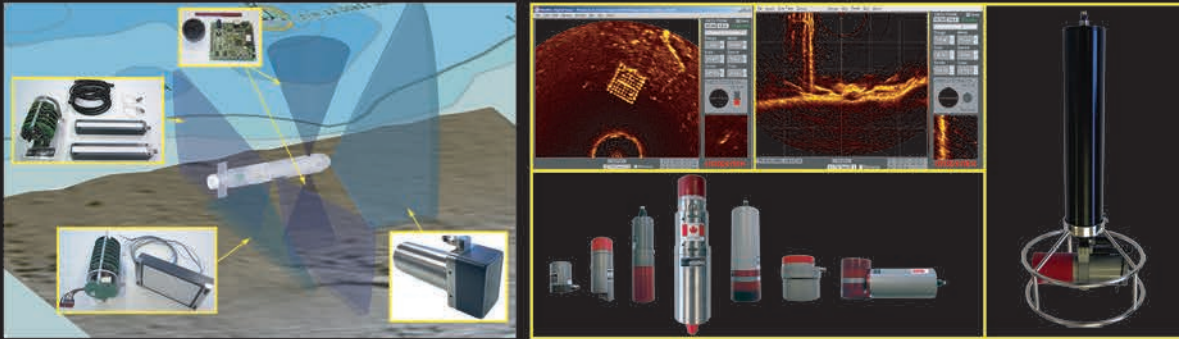
**UNDERWATER INDUSTRY REFERENCES:**

Company	Person	Phone or email

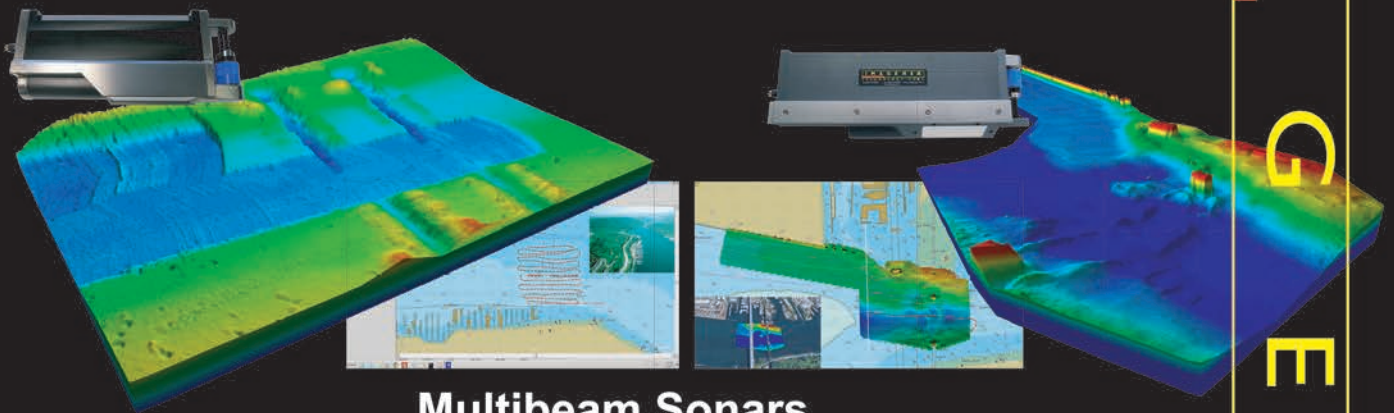
<b>CADC ADMIN USE ONLY</b>	
Date Received: _____	Cheque: \$ _____
Application forwarded to: _____	Date: _____
References Contacted: _____	
<b>APPROVAL</b>	
Executive Director: _____	Date: _____
Membership Committee: _____	Date: _____
Applicant Notified: _____ (date) Certificate Mailed / Transmitted: _____ (date)	

# Affordable Solutions for Sonar Systems

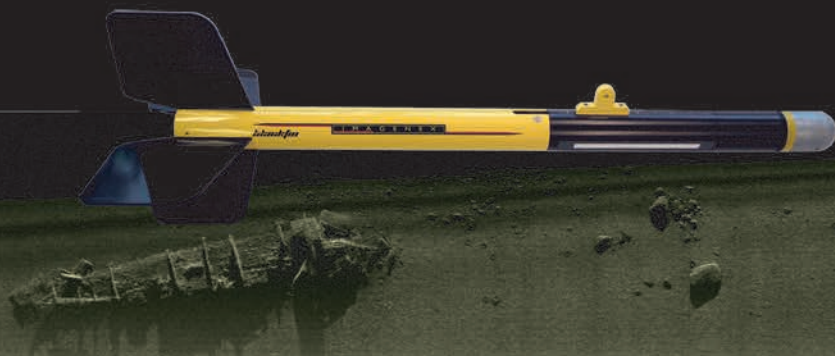
I  
M  
A  
G  
E  
N  
E  
X



## AUV Sensors & Mechanical Scanning Sonars



## Multibeam Sonars

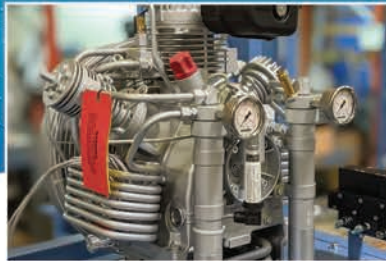


## Sidescan Sonars

IMAGENEX TECHNOLOGY CORP. 209-1875 Broadway Street, Port Coquitlam, BC, V3C 4Z1 Canada  
TEL: (604) 944-8248 FAX: (604) 944-8249 e-mail: info@imagenex.com

[www.imagenex.com](http://www.imagenex.com)

# PROVIDING CANADA WITH SUPERIOR MARINE SALES AND SERVICE SINCE 1979.



We offer top-notch equipment made in Canada, the United States and beyond.

## COMMERCIAL PRODUCTS

- |                         |                     |                        |               |
|-------------------------|---------------------|------------------------|---------------|
| > Helmets + Accessories | > Control Panels    | > Suits                | > Accessories |
| > Umbilicals            | > Cutting / Welding | > Cylinders            | > Tools       |
| > Communications        | > Video Lighting    | > Inspection Equipment |               |

We are an authorized distributor and/or reseller for the following brands and more:

**KIRBY MORGAN // UMBILICALS INTERNATIONAL // BROCO // JORDAIR COMPRESSORS // OUTLAND TECHNOLOGIES  
OTS // SUBSALVE // CYGNUS // ABYSS // SPYDERCO // PELICAN // UNDERWATER KINETICS CANADA**

AVAILABLE 24/7 // Call us and get a quote today!

**902.876.7078 // [connorsdiving.com](http://connorsdiving.com)**

11-2 LAKESIDE PARK DRIVE, LAKESIDE, NOVA SCOTIA B3T 1L7

# No More Excuses: Criminal Accountability in Commercial Diving

**I**n January 2025, the New Brunswick Court of Appeal confirmed what many in high-risk industries should already know: when supervisors ignore safety obligations and someone dies, prison can – and will – follow.

The decision in *King v. R.* upheld a three-year sentence for a site supervisor whose complete disregard for basic safety protocols led to the drowning death of an 18-year-old worker. This was no accident. It was a preventable tragedy, rooted in negligence, and it sent a resounding message across Canada’s industrial sectors: safety lapses are no longer just regulatory issues – they are criminal offences.

For Canada’s commercial diving industry, where workers face hostile environments, pressurized conditions, and confined spaces every day, *King v. R.* is more than just a legal precedent. It’s a blunt reminder of our moral and legal obligations to the people we employ and the standards we claim to uphold.

## What happened – and why it matters

Jason King, an experienced carpenter turned supervisor, directed a young worker into a confined concrete space to conduct routine work. Without warning anyone, King filled a pipe with 32,000 litres of water to pressure-test a pneumatic plug, and the plug failed catastrophically allowing water to surge in. Still in the space, the young worker was pinned and drowned almost instantly.



*Dive Supervisor Wylder Carson-Austin working the panel and calculating non-deco limits for the diver in the water. Photo courtesy of Canadian Coast Guard.*

*CADC promotes professionalism, standards, and safety, priorities that its members have taken to heart. Photo courtesy of ODS Marine.*

King had conducted no hazard assessment. He hadn’t read the manufacturer’s instructions. He hadn’t told the crew what he was doing. There was no rescue plan. There were no basic safeguards.

In other words, everything that could have gone wrong, went wrong. And

everything that should have been done, was not.

King’s conviction for criminal negligence causing death was based on his ‘wanton and reckless disregard’ for safety. The appellate court agreed and – importantly – they confirmed that,

under *Section 217.1 of the Criminal Code* (Bill C-45, the Westray Law), supervisors and employers who direct work have a legal duty to take all reasonable steps to protect workers from harm. If they don't and tragedy happens, they can face criminal prosecution, jail, a criminal record, and career-ending consequences.

#### What this means for commercial diving

Though the King case happened on land, the message couldn't be more relevant to the diving sector. Commercial diving is, by default, high-risk work that frequently involves confined spaces, hazardous materials, entrapment risks, and zero tolerance for mistakes.

It is also an industry where there are still corners being cut; with supervisors working without formal training, file plans that are more suggestion than standard, safety briefings that don't happen, dive crews running lean, and standby protocols skipped to meet deadlines or keep costs low.

However, here's the hard truth: in this legal environment, cutting corners is no longer just a bad idea – it's a criminal risk.

The King ruling sends out a crystal-clear message: supervisors will be judged by what a competent, informed professional should have done – not by what 'usually works' or 'hasn't failed before.' This is a standard that applies to every dive supervisor, every employer, every project manager, every client.

#### CSA Standards aren't optional – they're your legal shield

The CSA Z275.2 and Z275.4 standards are the minimum recognized safety benchmarks in our industry, and adherence to them is a basic requirement of Canadian Association of Diving Contractors (CADC) membership. But they are just the minimum and can always be exceeded.

Z275.2 defines the operational rules: crew sizes, dive procedures, hazard controls, emergency readiness. Z275.4 outlines the competencies each person must meet to be deemed qualified. These aren't just best practices – they are the baseline – and, in many provinces, they are legally enforceable. Even in jurisdictions where CSA compliance isn't specifically

legislated, the standards are recognized by regulators and courts as the measure of due diligence. Failing to follow them isn't just negligent – it could be the basis for criminal charges.

Let's be blunt. If a diver is killed on a job site and you didn't follow Z275.2, you may find yourself sitting across from a police investigator – not a provincial safety officer. *King v. R.* confirmed that a failure to comply with known safety requirements can meet the threshold for criminal negligence.

This also applies to supervisors who authorize dives without proper planning. Employers who don't provide training or certified personnel. Clients who push for speed over safety. If your actions – or inactions – lead to a fatality, the law now looks at you as someone who could have prevented it but didn't.

But beyond the legal framework lies something even more fundamental: the moral obligation we owe to our crews. These are the people who put on the helmets, drop below the surface, and do the work most people wouldn't even attempt. Their safety is not a line item or

**2026**  
**Canadian Underwater  
 Conference & Exhibition**  
**Man & Machine Underwater**

**Save the Date**  
**22 March - 26 March 2026**  
**Toronto, ON**

**Conference Focus**  
 Join your colleagues and industry professionals for exhibits and technical presentations that will address occupational diving operations, as well as ROV & AUV activities across North America.

For more information on Sponsoring, Exhibiting, Speaking or Registration visit our website  
[www.cuce.ca](http://www.cuce.ca)

a liability calculation. It's our duty of care. Every diver has a right to go home at the end of the day. When supervisors neglect that duty or when companies ignore warnings or under-resource their crews, they betray the trust that keeps the whole system running.

### What we must do – now

So, what's the takeaway for CADC members and all commercial diving professionals?

Train your people. No one should supervise a dive without formal training. Know the CSA standards. Know the law. Know your gear. Ignorance is not a defence.

Plan every dive. Document the hazards. Walk through the emergency protocols. Make sure every crew member understands the risks and their role. Treat every job like something could go wrong – because it can.

Follow the standards to the letter. Minimum crew sizes are just that – minimums. Don't skip the standby diver. Don't shortcut decompression. Don't ignore gear inspections. If the standard requires it, you must do it as a minimum level of safety. Always default to the higher levels of safety.

Empower your crews. Create a safety culture where people can stop the job if something doesn't look right. Encourage questions. Demand accountability from top to bottom. They have a right of refusal to work by law.

Clients: do your part. Hire qualified diving contractors. Insist on compliance with CSA standards. Don't pressure crews to rush or cut costs. Support safety – because when something goes wrong on your site, you're in the spotlight too.

### No more excuses

The King decision didn't create new rules – it reminded us of the ones we've had all along. Rules written in the blood of past tragedies, rules backed by law, and rules we as an industry have promised to follow.


There are no more excuses. If you don't know the safety regulations, learn them. If you're not following best practices, start. If your supervisors aren't trained, get them trained. And if your clients don't understand the stakes, educate them.

Because the next time tragedy strikes and someone drowns, or gets pulled into an intake, or fails to surface – you will be held accountable. You'll be asked if you did everything a reasonable, competent operator should have done. And if the answer is no, the consequences will be criminal.

### The final word

CADC promotes professionalism, safety, and standards, supporting both our members and the industry in general

to build a culture of compliance. But that culture must be lived out on every jobsite, every day. *King v. R.* is a tragic reminder of what happens when it isn't.

Let this be our line in the sand. In commercial diving, there's no margin for complacency. And now, there's no excuse for it either. 

Doug Elsey is the Executive Director of the Canadian Association of Diving Contractors. He has been working in the commercial and military diving industry for more than 45 years.

**READY TO DIVE DEEPER?**

If you're a DCBC certified Unrestricted Surface Supplied Diver looking for real opportunities to grow, challenge yourself, and work on diverse projects across Canada, you'd be a perfect fit on our team!

**Dynamic Work.  
Professional Growth.  
Competitive Pay.**

Scan to learn more and take the plunge!



 **DOMINION DIVERS**  
DEEPLY DEDICATED MARINE CONTRACTORS



Expertise and underwater intervention

# Articulated Concrete Mats

A proven long-term cost-effective solution

- Erosion control
- Shoreline stabilization
- Protection of underwater piping
- Quick and easy to install

Made in Canada

# UNDERWATER GREY MATTERS



[www.expertechmarine.com](http://www.expertechmarine.com)

105 rue Abraham-Martin, suite 300, Québec (Qc) G1K 8N1 | T : 418 694-7444



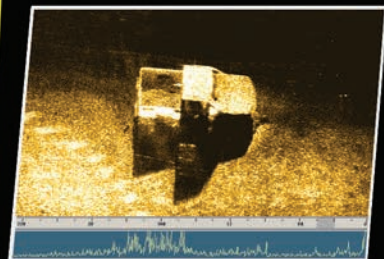
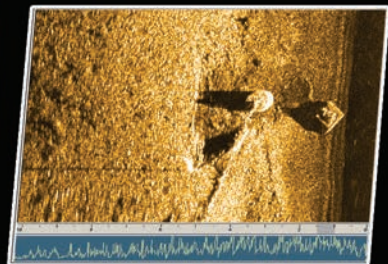
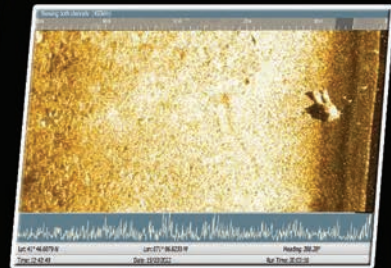
# Side Scan Sonar

450 / 900 kHz CHIRP

Side scan sonar is a powerful tool for exploring underwater environments. It quickly scans large areas and provides clear images of the ocean floor, lake bed, or riverbed, no matter how clear the water is. When you look at a side scan image, it seems like the water has been removed, offering a direct view of the bottom.



Scan for more information





# Capturing the Reality of Commercial Diving on the Silver Screen



Dennis Barrington.

By Dennis Barrington, Diving Safety Specialist

While I was familiar with the story, I almost gave the movie 'Last Breath' a pass when it was released. The technical inaccuracies in the trailer put me off and I didn't want to be the guy rolling his eyes in the theatre pointing out everything that was wrong.

Watching the film, however, taught me a lot about effective story telling.

Saturation diving is a highly technical operation; one that is not completely different from space travel. Teams of 12 to 24 divers live under pressure for up to a month and decompress for days before they can exit the chamber complex and walk around with the rest of us. So, how do you tell this story without completely

losing the plot in all the operational details?

In the movie, the director pulls away the unnecessary noise to reveal the essence of this North Sea diving disaster story. The dive team was casual in manner but intensely professional as they plunged into a seemingly unwinnable challenge that exploded without warning and escalated out of control. The villain is the clock as the team struggled to recover a diver lost in the icy depths of the North Sea.

But this is not just a movie – it really happened. And it happened within our modern regulatory environment.

An offshore incident that occurred without warning; the crew putting emotions aside to draw on their extensive experience and regain control of a bad situation; no smoke and sirens; no yelling; no flipping through manuals – just the quiet intensity of a high stakes crisis that must be resolved locally, and faster than Onshore Emergency Response can mobilize.

Holding the severed end of Diver 2's umbilical, Woody Harrelson (as Duncan

Allcock) provides a gut punch of reality as he quietly acknowledges the finality of his actions, pausing before doing what no bellman ever wants to – closing off Diver 2's breathing gas supply valve.

Without saying a word, Woody nailed it.

## A history with hazard

Could this kind of scenario have happened in Canada? Sadly, the answer is yes.

The one Canadian jurisdiction where saturation diving is routinely employed is also one of the most ferocious offshore environments on the planet. The Newfoundland and Labrador oil fields are exposed to the full wrath of the North Atlantic, and anyone who has spent significant time on the Grand Banks in winter has questioned their career choice at some point.

The 50-year history of East Coast oil exploration has also been punctuated by accidents, disasters, and countless near misses.

Few people are aware that two divers lost their lives in the 1970s when their bell was accidentally over-pressurized



*While the equipment that takes divers to work has improved over the years, the job still carries significant risks that need constant vigilance to mitigate.*

while being recovered to a drilling rig. We will always remember 1982 for the horrific loss of the drilling rig, Ocean Ranger, along with all 84 hands. Those of us who had worked on board, or on neighbouring rigs, were forced to realize that chance played far too big a role in our future prospects.

Six months later off Labrador, the drillship Pelerin's bell dropped 200 metres to the seabed trapping two men inside to await their fate. It was their good fortune, however, that a one-man Duplus / Mantis submersible was available and quickly mobilized to the site, facilitating their rescue just hours before their life support depleted.

A few months later and further south on the edge of the Grand Banks, two divers returning from a 220-metre dive were being recovered to deck when gas began escaping from their bell and they lost close to half the internal pressure before the open valve was located and secured. Had they continued venting, they would have quickly passed out and died.

1983 saw the Ocean Ranger claim three more diver's lives in two separate brutal incidents during salvage operations.

### **An evolving industry**

The end of the Petroleum Incentive Program (PIP) grants and the introduction of remotely operated vehicles gave the Grand Banks a break while the oil industry in general – and the diving industry in particular – reinvented itself in a transformation largely driven by Norway and the United Kingdom..

In Canada, Dr. Jan Merta had been hired as Diving Safety Inspector for the National Energy Board, and he proved to be an

enthusiastic and knowledgeable steward during development of the new Offshore Petroleum Diving Regulations. In addition to specifying qualifications, equipment standards, and operating procedures, he introduced the requirement for experienced dive supervisors to act as Diving Safety Specialists (DSSs) to be involved in all aspects of planning and executing diving operations. These DSSs are senior members of both the contractor and operator teams as the program is developed and are the key communication link between the two entities when the project moves offshore.

Diving on the Grand Banks requires a determined team effort. Working with their respective teams of engineers, the DSSs are the vital link in communication offshore between contractor and operator, ensuring that diver safety is the primary consideration. They review and approve dive plans, procedures, isolations, and requests for Permits to Work, while also ensuring risks are assessed and engineers are aligned. When significant alterations to an approved plan are required, that work is stopped, new plans are developed and risk is assessed, and a formal Management of Change document captures all details. The DSS and engineers then approve and sign off on the document before work resumes.

The contractor's Offshore Construction Manager (OCM) / DSS directs normal daily operations and ensures that the various teams are fit for purpose and fully briefed, and that a wide variety of drills are carried out regularly in anticipation of just about any foreseeable incident. They preside over the daily meeting including all department heads and the client team made up of DSS and engineering representatives. Online for the meeting are the neighbouring vessels, rigs, and shoreside parties. A Dive Support Vessel (DSV) typically carries more than 120 people, and the OCM / DSS is the facilitator who ensures that all entities are informed and that a solid plan is in place going forward.

The operation is under the command of the Contractor DSS, but the Operator DSS must be experienced with and be prepared to advise on local climactic conditions, weather patterns, subsea currents, ice migration, and hazards associated with sub-zero Arctic water temperature. They must be thoroughly versed in the Operator's work scope and procedures including marine and helicopter operations, field entry, PTW, isolations, management of change, emergency response, bridging documents and all local resources which could be called upon in emergency.

### **Safer through regulation**

Gone are the days when every subsea problem was an emergency; when cost and completion bonuses skewed priorities and when 'it worked yesterday' was a satisfactory maintenance standard.

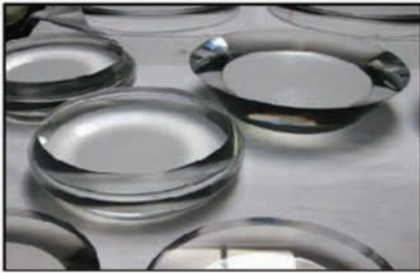
Today, the process of starting a diving operation is complex and thorough, involving multi-stage planning with many hold points that require consensus prior to proceeding. Each crew member has the responsibility and authority to bring up any question or even stop the job. The diver's job has become safer through routine procedures and schedules.

So, is the offshore diving business safe? Mostly, but risk remains and there is still opportunity for unforeseen



# HYDROSPACE Group Inc.

*Experts in Pressure Vessels for Human Occupancy*



**PVHO ACRYLIC WINDOWS**



**HYPERBARIC SYSTEMS**



**SUBMARINES**



**ALTITUDE CHAMBERS**

**ASME DESIGN  
ENGINEERING  
MANUFACTURING  
FABRICATION  
TESTING  
CERTIFICATION**

- PVHO Window Replacement
- ASME Chamber Repair
- ASME PVHO Maintenance
- Hydrostatic Pressure Test
- ASME PVHO Certificates

Visit us at:  
[www.hydrospacegroup.com](http://www.hydrospacegroup.com)  
USA: (909) 989-7773

**In Canada**  
Contact: Sherri Ferguson  
Shanfe Research & Consulting Ltd.  
Tel: (604) 802-7069



est. 2012

Custom Commercial Dive Harnesses,  
Commercial Tools, Equipment, & Apparel

Proudly Handmade in Canada   
Meets CSA Standards

CONTACT  
US

 [www.watersafetystop.ca](http://www.watersafetystop.ca)  
 [admin@watersafetystop.ca](mailto:admin@watersafetystop.ca)  
 1-905-979-0187

circumstances, mistakes, or technical surprises – usually in combination – where factors align to create an incident. So, while diving safety on the Grand Banks has improved dramatically, unplanned incidents still happen, albeit much less frequently. Over the past two decades, divers have lost breathing gas and hot water supply, objects have been dropped, and rigging has failed. And yes, occasionally a diver's umbilical has become caught up.

When an incident happens, as in the *Last Breath* movie, the normal routine is disrupted – usually without warning – and emergency procedures come into play. Responses practiced in drills begin to play out, with each person knowing their role and what actions they should be prepared to take.

That said, emergencies rarely play by the rules and individuals must draw on their knowledge and experience to address the situation. Effective response can only happen quickly when the persons involved can put aside differences and emotions to assess, collaborate, and even innovate toward a unique solution. The Titan submersible debacle off the coast of Newfoundland provided a stark reminder of how a poorly handled response to an emergency can grow into a public spectacle.

In most incidents involving diving operations, it is the immediate local response that will determine the outcome. Just as it happened in *Last Breath*, solutions must come from the people and resources on site, and the trained diving personnel need to become focused on adapting everything they know to affect an acceptable outcome. When time is of the essence, bureaucracy and dithering cannot be afforded. The OCM / DSS, Vessel Captain and Chief Engineer, Dive Supervisors, and Client DSS each carry some sort of certificate that proclaims their minimum qualification, but it is the sum of their career accrued wisdom that remains their most valuable contribution.

The key to success remains with the knowledge and experience of the individual responders on site. We must remain diligent and vigilant to ensure that, as in *Last Breath*, our teams are equipped to deliver their best performance. 🍁

Dennis Barrington, a Seneca College graduate, started saturation diving in the 1970s and has worked various roles as a diver, Supervisor, Offshore Manager and Diving Safety Specialist in the North Sea, Gulf of Mexico, Alaska, Lake Erie, and Eastern Canada. He worked aboard the Ocean Ranger off Newfoundland and on its salvage after it sank. Since 1997, Dennis has been DSS on most Canadian saturation diving and ROV projects, including construction, and maintenance of Hibernia, Terra Nova, White Rose, and Sable. He has consistently strived to develop the DSS role in the manner envisioned by Dr. Jan Merta, to ensure that DSSs with significant local experience evaluate all critical operational decisions concerning diving operations with diver safety taking precedence over all other interests.

Glenn Costello



## Glen Costello Honoured with 2025 Lifetime Achievement Award

At the 2025 Canadian Underwater Conference & Exhibition in Vancouver, BC, the Diver Certification Board of Canada (DCBC) presented its Lifetime Achievement Award posthumously to Glen Costello – a respected commercial diving pioneer, founder of Canpac Divers Inc., and past president of the Canadian Association of Diving Contractors (CADC).

The award was accepted by his wife, Charlie Costello, during a moving ceremony that recognized a lifetime of groundbreaking achievements, unshakable ethics, and advocacy for diver safety.

Glen's underwater career was built on a foundation of hard-earned experience – from military service with the Peace Keeping Corps in Egypt and the Middle East, to ironwork on major infrastructure projects, and – finally – into commercial diving, where he left an indelible mark.

As President of Canpac Divers from the early 1980s until 2012, Glen led deepwater projects involving ROVs, manned submersibles, salvage, and marine construction across Canada and abroad. He also contributed significantly to regulatory development, serving on CSA dive standards subcommittees and assisting in the formation of diving safety regulations for WorkSafeBC, and his willingness to share knowledge made him a mentor to many.

Glen's unwavering integrity, persistence, and unwavering commitment to diver safety made him a fitting recipient of this national honour.

The CADC congratulates Charlie Costello and the Costello family on this well-earned recognition of Glen's enduring legacy. His contributions continue to shape our industry, and the standards we uphold today.



# How We Can Overcome the Shortage of Occupational Divers?

By Tracy Childs, Diver Certification Board of Canada

A significant issue we hear in our industry is the ongoing shortage of occupational divers who can meet contractor requirements in both diver competency and provincial regulations – an issue that is impacting the country as a whole. To get a better understanding of this growing situation, we at the Diver Certification Board of Canada (DCBC) have spoken with dive schools and provincial regulators to gain a better insight into the reasons behind the shortage.

Even though DCBC-accredited schools graduate approximately 135 new divers every year in Canada, many of these graduates quickly realize that the challenging conditions of a diving career are not for them long-term.

And while DCBC has a database containing a wealth of statistical information, there remains a considerable margin of error in determining who continues to work in the diving industry beyond their initial two-year certification. After analyzing the statistics available from 2018 to 2020, we certified 399 graduates from Canadian dive schools. Of those two-year certifications, we renewed 217 within a three-year period, allowing for a delay in recertification. This suggests an attrition rate of 45.6 per cent.

In Ontario, the attrition rate sits at roughly 43 per cent, while British Columbia is higher, at 50 per cent. In Quebec, DCBC statistics suggest that the attrition rate is much higher at 70 per cent, but we know this is not the case because, unlike in other provinces, divers trained and working in Quebec aren't required to renew their DCBC certification. That said,

we expect that the attrition rate in Quebec to be approximately 50 per cent, at least

## Solutions needed

So, how do we keep these divers in the industry? How do we connect divers with contractors that span the country, coast to coast? What can contractors do to retain their divers, long term? And, if they leave the industry, what measures are required should they decide to return?

As with most skilled trades, the rate of pay is the most significant factor impacting worker retention. Many divers will look to utilize their skills more effectively between dive jobs in another land-based trade that offers better compensation. This means that contractors have become more creative and offer both salary and incentives to attract divers and retain divers. Sometimes these incentives are enough to bring divers back from their hiatus, but there's just one problem: those workers haven't worked as a diver for several years.


DCBC regularly receives inquiries from divers who want to get back into diving after an extended period. These calls to the office are often made with great reluctance, and former divers are unsure if they must start over, undergo retraining, and ultimately create a greater financial burden to return to a job they've been missing. Fortunately, DCBC schools offer an assessment process to formally trained occupational divers, allowing them to return to diving with only a fraction of the time and cost required to complete the whole program again.

It's encouraging to see divers take measures to re-enter the industry, as there is a greater likelihood that they will stay.

## A global problem

This shortage of divers is not unique to Canada. It is felt both in the United States and around the world. However, as Canada is a founding member of the International Diving Regulators and Certifiers Forum (IDRCF), many certifications issued by DCBC are recognized internationally. While this may open up new opportunities for Canadian divers on an international level, it has an equal impact on the number of divers available to Canada's diving industry. While some embrace life as a diver working abroad, many decide that they prefer to be a little closer to home.

Clearly, there is more that can be done, but there is no single silver bullet to the challenge. Do we need to make the career more attractive in terms of working conditions and salaries? Do we need to find a better way to connect prospective employers with those divers who are looking for work? Do we need to add schools to graduate a greater number of divers?

The answer to all these questions is 'yes.' There is always room for growth in this industry and DCBC is here to advocate for improvement. 

Tracy Childs has been with the DCBC since 2008. Originally from Newfoundland, she moved to Nova Scotia with a BA from Memorial University. Eventually she went on to complete further training in Business Administration. Tracy's positions within DCBC have evolved from Executive Assistant to Certification Manager, and now CEO. Tracy has also been instrumental in hosting the CUCE since its inaugural year in 2008, a Canadian conference that continues to move across the country.



# A giant leap.



#### Canadian Interspiro Dealers

Ocean Equipment (Master Distributor & Master Trainer)  
Dive & Sea Sports  
Generaon Wave Scuba  
Barrie Scuba House  
Canadian Safety Equipment  
CSE Incendie et Securite  
Nepteau Centre de Plongee  
Mako Diving & Marine Services  
DiveTeck

#### Territory

CANADA  
British Columbia  
Alberta  
Ontario  
Ontario  
Quebec  
Quebec  
Maritime Provinces  
Quebec

#### Phone

1-604-487-0715  
1-604-524-1188  
1-587-362-5929  
1-705-721-9797  
1-800-265-0182  
1-514-737-2280  
1-514-337-5489  
1-506-349-5110  
1-418-732-9251

Interspiro is excited to announce our Partners & Dealer network across Canada.

For Training & Certification, Interspiro proudly introduces our Sole Source Master Trainer—Mitchell Lepine, Owner & President - Ocean Equipment

## INTERSPIRO Keeps you Breathing

# The Challenge of Telling Our Underwater Story

By Vickie Jensen, Author

**W**hen I was the editor of the British Columbian publication *Westcoast*

*Mariner* (now *Western Mariner*), a reader called me saying, “You write about everything that happens on the water, but what about what happens under the water?”

That became my introduction to British Columbia’s underwater world.

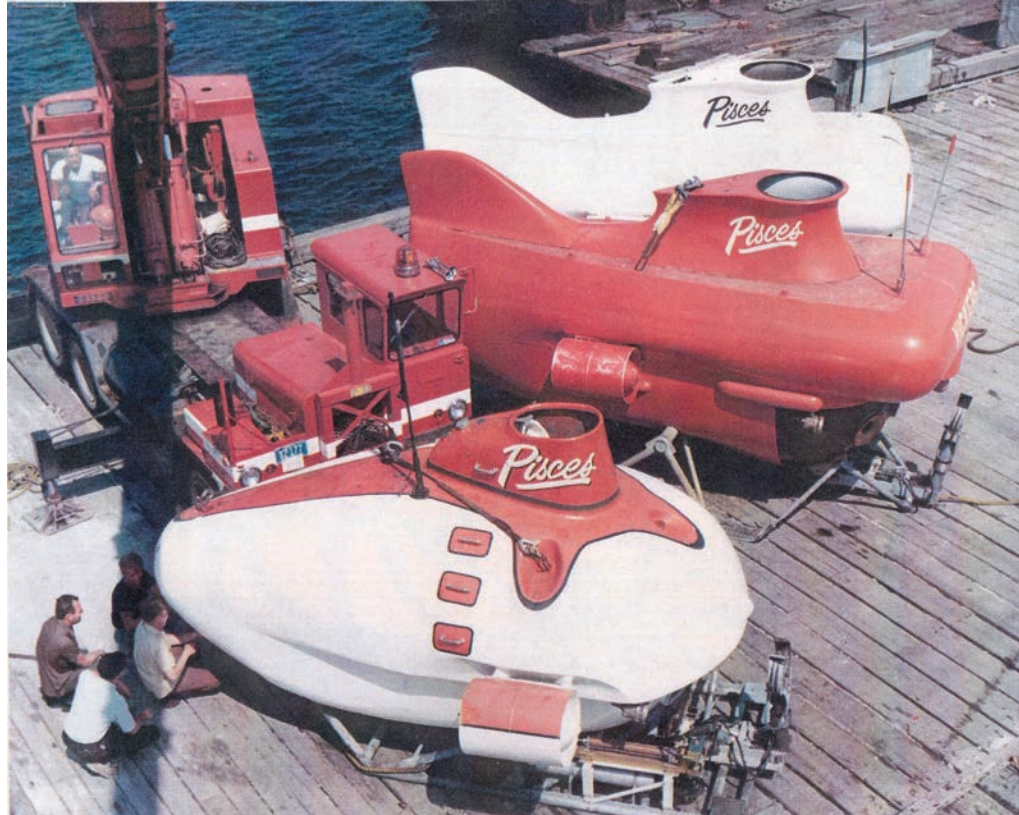
Two decades later, I took on the challenge of sharing the legacy of the province’s subsea world, starting in the early 1960s with its hardhat divers. The final product was my book, *Deep, Dark, and Dangerous: The Story of British Columbia’s World-Class Undersea Tech Industry*. Published by Harbour Publishing in 2021, the book highlights the founders and inventors of this industry who continually pushed their limits to grow from local to world-class.

## Recent attempts at preserving history

There have been some recent attempts at preserving some of Canada’s subsea history.

Operating three museums in Ottawa, Ontario, Ingenium is mandated to maintain and develop Canada’s national collection of scientific and technological objects and library collection, including books, photographs, and archival documents. As part of this, the organization purchased Phil Nuytten’s *Deep Rover*, as well as commissioned a series of interviews and data collection to document the story of this historic, manned submersible.

Even more recently, thanks to the generosity of Nuytco’s Jeff Heaton and the intent of Vancouver Maritime



With the development of the Pisces Series of submersibles, HYCO became the training ground for a whole host of undersea professionals working beneath the waves. Photo courtesy of Gino Gemma / Terry Knight.

Museum Director, David Jordan, as well as the determination of Chris Roper, a significant piece of HYCO’s early subsea history – *Pisces II* – may find a home for display outside the museum.

David Jordan says, “We want to tell British Columbia’s subsea tech story. It’s been on our minds and in our plans for some time.”

The challenge is always the lack of funding. Jordan hopes this notable submersible, as well as the possibility for a permanent subsea exhibit inside the museum, will catch the attention of somebody who will be interested in moving this forward.

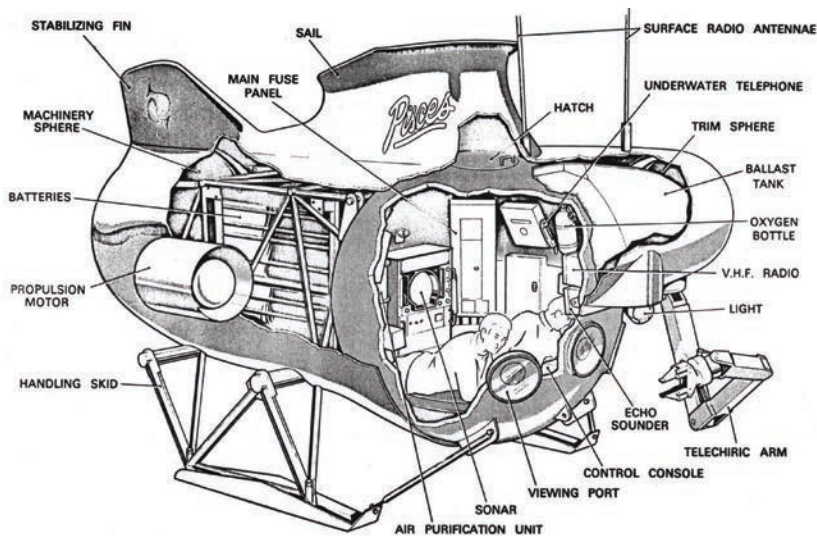
Another type of submersible, the historic mesoscaphe *Ben Franklin* – also

known as the Grumman/Piccard PX-15 – already stands outside the Vancouver Maritime Museum as an early example of international subsea exploration.

“It creates a lot of curiosity just by being there,” says Jordan. “People wonder what it is and what its story might be. Our challenge is to do more exterior education, so we’ve already posted educational videos online about the vessel’s story. But we want to add QR codes and more things for people to explore. Adding *Pisces II* will allow us to focus on our province’s divers, inventors, and entrepreneurs even further.”

## The history of Pisces submersibles

Two key early companies in the 1960s and 1970s were Can-Dive and International



Many of the revolutionary innovations underpinning the Pisces submersible are still in use today, decades after the Pisces 1 first launched. Rendering courtesy of Al Trice / HYCO.

Hydrodynamics (HYCO). Few would have predicted that these two hardscrabble companies from British Columbia would eventually grow their reach around the world or that they would spawn other subsea companies with multi-million-dollar revenues.

Beginning with its first miniature submarine – a two-person submersible named Pisces I – HYCO served as the training ground for a generation of entrepreneurs, scientists, engineers, inventors, designers, and technicians who all agree that “HYCO was where we all started.”

The HYCO team members were trailblazers and there was nobody around with comparable experience, but the learning curve was incredibly steep.

Now 95-years-old, HYCO co-founder Al Trice recalls, “We had to create everything from scratch with no real understanding that it would be reliable, or even that it would work in the ocean. What comforted me was the thought that, if it was easy, everybody would be doing it.”

Pisces I quickly gained a reputation for the depth and breadth of work it could do, and with each job Trice made notes of changes and refinements for future models. These included larger removeable panels to facilitate work on the electrical connectors, a bigger sail that could be removed for easy transport in an airplane, a flat deck to facilitate

walking around the sub’s hatch, proper sonar, or greater diving depth. This learn-by-doing approach was especially amazing considering that it happened in the era before computers.

“We had to create everything from scratch with no real understanding that it would be reliable, or even that it would work in the ocean. What comforted me was the thought that, if it was easy, everybody would be doing it.” – Al Trice, HYCO

HYCO had one significant ace in the hole as they began expanding their list of submersibles – they knew their submersibles intimately: inside and out. That’s why, in the late 1960s, when UK-based Vickers Shipbuilding and Engineering decided to get into the submersible business, they came to British Columbia and agreed to fund construction of both of HYCO’s next submersibles – Pisces II and Pisces III.

## Preserving the past

HYCO spanned the heyday of deep-diving manned submersibles until the technology was replaced by unmanned robots. But, by this time, Vancouver was already on the map as a world leader in the subsea arena.

Nuytten says, “It’s a little-known fact that much of what is now routine deep sea diving stuff worldwide was actually developed right here in British Columbia.”

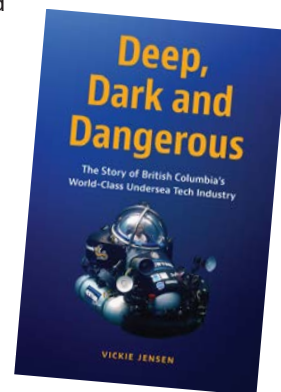
Former Vancouver Marine Museum Director James Delgado agrees, “British Columbia is an international centre for deep ocean research, with a number of multi-million-dollar businesses actively engaged in the exploration of Earth’s final frontier.”

The next challenge, of course, is to introduce the public to this underwater world with a permanent exhibit inside the Vancouver Maritime Museum. Jordan says, “We want to share the excitement of this extraordinary segment of British Columbia’s maritime history, as well as the industry’s healthy involvement in the global market of deep ocean research and development today.”

But just as with getting Pisces II ready and installed outside the museum, creating an inside exhibit that is interactive, engaging and captivating takes significant funding, personnel, and involvement.

Are we up to that challenge? Are we willing to put in company resources to help restore and ready equipment for display? Are we able to lobby for funding? And what are we doing to capture and preserve our own company and industry history?

Only time will tell.



Vickie Jensen served as editor of Westcoast Mariner magazine before writing books. Her maritime titles include *Saltwater Women at Work*, *Ships of Steel*, as well as the textbook *Underwater Robotics, and Deep, Dark & Dangerous*. Vickie and her husband Jay Powell also works with First Nations groups to produce more than 50 language and culture schoolbooks. In 2021 she became a Fellow of the Royal Canadian Geographic Society.

# Hiring the Professional Diving Contractor: The Bottom Line

Employing the right underwater contractor can reduce civil and criminal liability exposure in case of accidents and affect your bottom line. Here's what you need to know.

By the Canadian Association of Diving Contractors

**E**mploying an underwater contractor ignorant of current safety standards and regulations can expose the employer to serious (and expensive) civil and criminal liability in case of an accident. Bill C-45 of the Criminal Code of Canada states it is the legal duty of employers and those directing work to take reasonable measures to protect employee and public safety. If this duty is disregarded and bodily harm or death results, an organization could be charged with criminal negligence. Is this a risk you and your company are willing to take?

To educate oneself on employing a commercial diving contractor, pick up the yellow pages or do an online search for commercial diving companies. You will see it's a competitive business – companies offering underwater services, from underwater inspections or repairs inshore, to full-blown deep diving in hundreds of metres of water in the offshore. Add to this the clearance of unexploded ordinance underwater, and you soon get the idea that special skills and safety requirements are needed to undertake the work.

Independent diving companies and members of the Canadian Association of Diving Contractors (CADC) participate in these and other activities daily. In searching for a qualified underwater services operator, are all created equal? Do they operate equally? Are you – as an employer – protected from liability should something go wrong? What standards and regulations are currently in place?

The closest thing to a common or nationally-recognized diving standard cited in regulations is the Canadian

Standards Association's (CSA) 275 group of Diving Standards. The CSA standards are recognized as preferred industry practice by the Federal Government's Human Resources & Development Canada, the National Energy Board of Canada and by all 10 provincial labour regulators. Regulatory compliance for occupational safety is the responsibility of each province and territory. There are jurisdictional overlaps, like Labour Canada having jurisdiction over federal government employees, and the National Energy Board of Canada being responsible for the offshore.

Not all provinces enforce the same regulations. Although they may not be law, many provinces that don't have diving regulations cite the various CSA Dive Standards in their occupational health legislation. Although the standard may not be law, if a province, territory or federal government refers to the

standard in legislation, the standard does, in fact, become law. It can – and has been used to – prosecute clients, operators or supervisors if standards are not met.

The CSA Diving standards were formulated by stakeholders in the Canadian underwater industry, with input from educators, regulators and industry users across Canada. They are reviewed annually and updated every five years.

To the employer, the most important standards are the CSA Z275.2 *Occupational Safety Code for Diving Operations* and the CSA Z275.4 *Standard on Diving Competency*. The CSA Z275.2 *Occupational Safety Code for Diving Operations* concerns itself with operational diving safety standards – including minimum crew sizes (i.e.: four competent dive personnel in surface supplied diving), restrictions on the

RESPONSIBILITIES	
<p><b>Diving Contractor</b></p> <ul style="list-style-type: none"> <li>• Ensure that risk assessments have been performed.</li> <li>• The area in which work is being carried out is safe and suitable.</li> <li>• All personnel representing the diving contractor are appropriately qualified and certified.</li> <li>• All equipment used by the diving contractor is in good working order and, where applicable, is certified.</li> <li>• The actual work has been assessed and a suitable plan of action has been prepared (including lock-outs) for the work to be carried out safely, effectively and efficiently.</li> <li>• Any site-specific safety and familiarization training is provided to all personnel on the dive crew.</li> <li>• Project records, including dive logs, hazard analysis, and all relevant details of the project are recorded properly.</li> <li>• Adequate arrangements exist for first aid and medical treatment of personnel.</li> <li>• All relevant regulations are complied with.</li> </ul>	<p><b>Client</b></p> <ul style="list-style-type: none"> <li>• The scope of work has been clearly defined and agreed to by the diving contractor.</li> <li>• Agreement has been made to provide facilities and all reasonable support in the event of an emergency.</li> <li>• Consider all potential hazards that are under their control and inform the diving contractor of these.</li> <li>• Take steps to remove or reduce potential hazards as is feasible.</li> <li>• Ensure that sufficient time and facilities are made available to the diving contractor to carry out hazard analysis and lock-out procedures where applicable.</li> </ul>

use of scuba in diving operations and equipment, supervision and medical requirements. It is important to realize these are minimum requirements for safe diving operations and are not all-inclusive.

The *CSA Z275.4 Standard on Diving Competency* concerns itself with the competency of the underwater worker and support personnel. This also is a minimum requirement for all personnel in a diving operation, meant to enhance the safety of the operation. It provides designations for competency in the occupational diving field.

It is law that we have a responsibility to ensure the safety of others. We need to be diligent in planning and executing objectives. The responsibility is not diminished by perceived extent of apparent risk. When things go wrong on a dive, consequences can be swift and severe. Making the right choices when employing diving services is the responsibility of the employer and may require managers to reassess current occupational health and safety programs to ensure compliance with regulatory requirements.

**Who certifies to the CSA standards?**

Provincially, certification can be provided by the regulatory authority or an authorized representative in the province. Nationally, the federally registered, not-for-profit Diver Certification Board of Canada (DCBC) is currently the only recognized body that certifies offshore and inshore commercial divers throughout Canada. The DCBC certification is issued to commercial diving personnel who meet competency requirements of *CSA Z275.4*.

The DCBC also accredits commercial diver training organizations which train to the competency levels described in *CSA Z275.4*. Such accredited organizations can assess commercial divers with experience but little or no formal training. Eight provinces and two territories cite the *CSA Z275.4* standard in their regulations. Those provinces recognize DCBC certificates as reliable evidence that the holder is competent to the *CSA Z275.4* competency levels.

**Who complies with the CSA standards?**

In many provinces, the CSA diving standards and its derivatives are law. Legally, failure to follow regulations and standards and to protect the underwater worker can result in civil and criminal charges.

When one considers the legal requirements for diving operations in Canada – and the intensive training and certification required by those in the industry – picking up the yellow pages and choosing a diving contractor at random is akin to playing Russian Roulette with your business or organization at the end of the barrel.

Due diligence to make sure the diving contractor is in compliance and is cognisant of the occupational health and safety laws and standards within the province protects both the owner and the underwater worker.

Members of the CADC are required – once accepted into membership – to pledge and sign-off on the following mandatory CADC membership requirement:


“As a CADC member, the company pledges to foster safety in all areas of activity; to comply with all regulations as set out by the authority having jurisdiction or – in the absence of regulations – to observe minimum standards as identified in current *CSA Z275.2* Occupational Safety Code for Diving Operations + *CSA Z275.4* Competency Standard for Diving Operations and Safety upgrades to the standards and amendments as approved by the Board of Directors and to maintain high standards with regard to business ethics, employee relations, and the public image of the underwater industry.”

When considering who does the underwater work, considering the employment of a professional diving services company that has earned membership in CADC and has pledged to observe safety standards and maintain high standards in business practices is a good starting point.

Hiring a member company of the CADC does not guarantee safety or high performance; there are many variables in underwater work – each company has its own high standard in operations above the minimum requirement. It’s up to the

owner to make decisions as to who they should hire – and determine what the true price of hiring a low bidder or non-professional company is.

Incidents and accidents cost money. Correctly choosing a professional contractor will translate into cost savings. The true bottom line in safety, performance and compliance to recognized industry practices and regulations is measured by the owner exercising due diligence in the selection of the contractor. Be reminded that Bill C-45 of the Criminal Code of Canada states it is the legal duty of employers and those directing work to take reasonable measures to protect both employee and public safety. If this duty is disregarded and bodily harm or death results, an organization could be charged with criminal negligence. Doing the homework is recognition of the clients’ concern for worker safety and is just plain smart business. Considering a CADC member company is a good start.

For additional information or a full list of diving contractors, please go to [www.cadc.ca](http://www.cadc.ca). 

Canadian Standards Association (CSA) Diving Standards	
CSA Z275.2 refers to:	Occupational Safety Code for Diving Operations: <ul style="list-style-type: none"> <li>Operational Requirements.</li> <li>Minimum Crew Size.</li> <li>Restrictions on Scuba.</li> <li>Equipment Requirements.</li> <li>Supervision.</li> <li>Paperwork.</li> <li>Etc.</li> </ul>
CSA Z275.4 refers to:	Diver and Dive Crew Competency: <ul style="list-style-type: none"> <li>The competency required for all diving personnel.</li> </ul>
CSA Z275.1 refers to:	Chamber Standards: <ul style="list-style-type: none"> <li>Requirements for hyperbaric facilities and decompression chambers.</li> </ul>
CSA Z275.6 refers to:	Unexploded explosive ordnance (UXO) and munitions diving.
CSA Z180.1 refers to:	Compressed Breathing Air Systems: <ul style="list-style-type: none"> <li>Minimum allowable limits of contaminants in breathing air.</li> <li>Minimum compressor requirements.</li> </ul>

## ODS Marine Construction: Anchored in Excellence

By Paul Adair, Staff Writer



*ODS Marine has the capacity to take on projects of any scale, such as the complex ESAP Intake and Outfall Replacement for the City of Ottawa. Photos courtesy of ODS Marine.*

**ODS Marine Construction is an** Ottawa-based company specializing in commercial diving and marine construction. The company has built a reputation for excellence in underwater operations from coast to coast to coast across Canada.

ODS Marine was founded in 1981 and started out as a dive company primarily performing local salvage and inspection projects in the nation's capital. Now, in its fifth decade of doing business, the company takes great pride on delivering full turnkey solutions and meticulously managing every project phase – from initial planning and engineering consultation to preparing ongoing maintenance and inspection programs.

ODS Marine offers its clients a wide range of services, including:

- **Commercial diving services:** ODS Marine executes marine construction, underwater inspections, structural repairs, and maintenance operations with a strong emphasis on safety protocols and quality assurance, even in some of Canada's most complex and high-risk aquatic environments.
- **Workboat rentals:** ODS Marine's custom-built workboats are tailored for construction, safety / rescue, and inspection needs.
- **Safety boom installations:** ODS Marine has more than 30 years of experience installing and refurbishing marine safety and debris booms.
- **Barge systems:** ODS Marine's sectional barge system – known as the 'Bentley Barge' – serves as the flagship of the company's fleet. Named after ODS Marine's original location on Bentley Avenue in Ottawa, this modular and highly adaptable platform supports a wide range of marine construction and diving applications. Its flexible design allows ODS Marine to deliver customized solutions that meet the specific needs of both clients and dive crews.



*Seen here working on the Otto Holden Generating Station's coffer dams, ODS Marine's barge systems are able to meet any marine project's unique demands.*

Over the years, ODS Marine has played a critical role in several landmark infrastructure projects. The company's diving teams have provided specialized underwater services for the Lower Mattagami Hydroelectric Generation Project, contributing to the successful completion of one of Canada's largest renewable energy developments, and has been the preferred diving and marine constructor on the Energy Services Acquisition Program (ESAP) project for the federal government, ensuring minimal disruption and long-term water system reliability for Parliament and other cherished government buildings in the downtown core. Additionally, ODS Marine led the meticulous restoration of the historic Rideau Canal lock system, carefully preserving its original 1832 design while meeting modern safety and operational standards.

The company also provided general marine for projects including exploratory drilling projects in Canada's north, upgrading the public safety infrastructure along the historic Trent Severn Canal system, and for Provincial Hydro Electric Suppliers across Canada.

### A close-knit culture

Everyone who works at ODS Marine has experience as a diver and has risen through the commercial diving ranks and, as such,

knows about the challenges that come with this line of work. This has resulted in an extremely close-knit and like-minded work environment, one where everybody works together towards a common goal.

ODS Marine takes pride in its ability to retain divers, something that is becoming more important as workforce challenges are making it increasingly difficult to recruit new divers into the fold.

"It's not always easy for new people getting out of school to find employment," says ODS Marine Operations Manager, Mike Fleming. "So, it's nice to be able to give someone their first taste of diving and keep them engaged with the industry and so – hopefully – they will want to continue their pursuit of diving as a career."

**Safety first, always**

At ODS Marine, safety and quality are at the core of everything the company does to ensure every project meets the highest standards of excellence. By fostering ingenuity and resourcefulness, ODS Marine

pioneers innovative solutions while also prioritizing the well-being of its workers and the environment they work in.

"We don't take every job that's thrown at us," says Fleming. "We try to work with reputable companies that share the same pride we do when it comes to safety. That's how we make sure everyone goes safely home at the end of the day."


ODS Marine greatly appreciates its membership with the Canadian Association of Diving Contractors (CADC), seeing the association as an invaluable resource for networking, ensuring safety, and driving industry-leading best practices.

"As a responsible diving contractor, we want to promote safety not just within ODS Marine, but throughout the diving industry – and the CADC has helped us with doing just that," says Fleming. "Whether it's in the pages of *CADC Magazine* or in the newsletters sent out to members by the association, CADC helps us stay on top of regulations, recommendations, and what's

happening in our industry so that we can be better at what it is we do."

**Eyes on the horizon**

Looking ahead, ODS Marine plans to continue delivering the same level of excellence and quality that has brought the company success since its founding more than 40 years ago, as well as continue to expand into western provinces and Atlantic Canada seeking further opportunities for their divers.

"With infrastructure aging across the country, we anticipate continued growth in demand for our specialized diving services," says Fleming. "Our reputation for delivering results in a safety-first industry has earned us the trust of clients nationwide. As a result, we've been regularly called to projects all over Canada, with many more in the pipeline. The need for efficient, experienced and dependable dive teams remains constant – and we are committed to meeting that demand with our expertise and readiness." 



**Professional Diving & Marine Services**

- Barge and Workboat operations.
- Dam and Bridge inspection, maintenance and repair.
- Contaminated diving and Confined Space certified.
- Cofferdam installation and dewatering.
- Pipeline installation, inspection and cleaning.
- Underwater video, sonar and ROV inspections.

6866 McKeown Drive, Greely, Ontario K4P 1A2  
 Telephone: 613-821-3988 • Fax: 613-821-2766  
 www.odsmarine.com ods@odsmarine.com



**Galcon Marine Ltd. is the One-Stop-Shop for all your Marine Construction Projects!**

**Services Offered:**

- ~ Day Rate Diving Service ~ Barge Rental
- ~ Marine Salvage ~ Marine Pipe Installation
- ~ Dredging ~ Side Scan Sonar Surveys
- ~ Dam Building & Rehabilitation ~ Shoreline Construction
- ~ Design/Build Any Marine Project

**Contact:**

Dave Gallagher @ 416-255-9607  
 Shaun Gallagher @ 416-997-9607  
 Email: galcon@bellnet.ca

# SAVE the DATE

DECEMBER 3-5, 2025

**STAY  
CONNECTED**

For more information  
on the 2025 show, visit  
[workboatshow.com](http://workboatshow.com)

INTERNATIONAL  
**WORKBOAT**  
SHOW

with  
**UNDERWATER  
INTERVENTION**

Powered by WORKBOAT

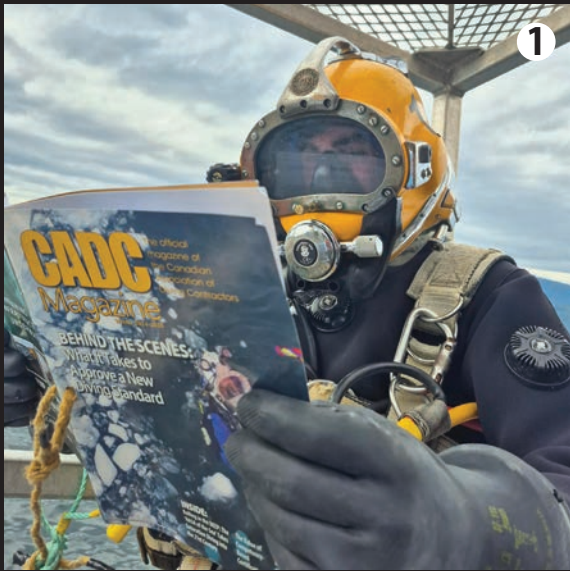
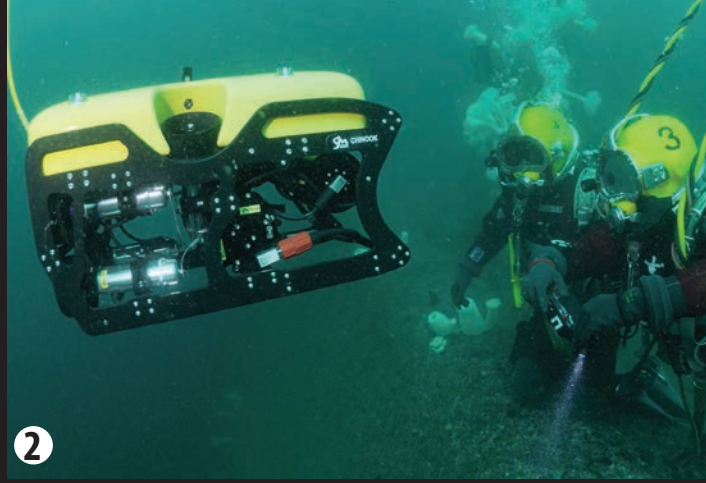
**NEW ORLEANS, LA**

Morial Convention Center, Halls B, C, D, E & F

Produced by **diversified** Presented by **WORKBOAT**

# images of innovation

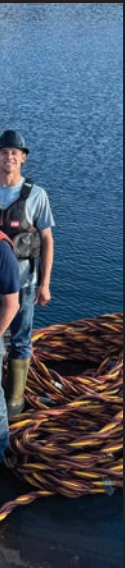
1. There's always time to take a quick break and catch up on your reading. Photo courtesy of DiveSafe International.
2. Students at DiveSafe International learn about all the tools in the diver's toolbox, including ROVs. Photo courtesy of DiveSafe International.
3. Atlantic Commercial Diving Centre's USSD class of 2024. Photo courtesy of Atlantic Commercial Diving Centre.
4. True Depth divers have extensive industry experience working across western Canada and are never afraid to take the plunge. Photo courtesy of True Depth Diving.
5. All smiles out of the water. All professionalism under the surface. Photo courtesy of Expertech Marine.
6. Nobody ever said commercial diving would be easy – or clean – as Canada Pump & Power performs an entry diver recovery. Photo courtesy of Canada Pump & Power.
7. Above or below the water, PSM delivers. Photo courtesy of PSM.
8. CUIS divers getting ready to hit the water in Ontario. Photo courtesy of Canadian Underwater Inspection Services.
9. Diver Ian Costin and tender Keith Meyer at a Seattle cable install project. Photo courtesy of JF Brennan.
10. ODS Marine at the Lower Mattagami River Sheet Pile Removal Project with Diver, Geoff Low, and Tender, Erick Schweig. Photo courtesy of ODS Marine.
11. Tender Jonas Berge and Diver Ken Maher after pit cleaning in NBP Belledune, New Brunswick. Photo courtesy of Ship to Shore Diving.
12. You never know what you're going to see in the life of a Canadian diving contractor. Photo courtesy of Canadian Underwater Inspection Services.
13. Diver Jeff Knaupp and tender Mikayla Crosson confirming that the diver is ready to jump in the water aboard Hovercraft Siyay. Photo courtesy of Canadian Coast Guard.



## Our Members at Work



If you're a member of the CADC and have some great shots of your crew at work (in and out of the water), we want to see them! Showcase what you do. Send images (with captions) for consideration to [delsey@cadc.ca](mailto:delsey@cadc.ca).



# Warkentin FABRICATING

Choose one of our standard WARFAB SERIES sizes, or have one custom built to fit your needs. From 1-piece, sectionals, hopper barges and push boats WARFAB BARGES deliver quality, durable barges to meet all your needs. With tons of ad-ons available, you will get exactly what you need to complete the job.

## WARFAB CUSTOM SERIES



### SIZES AVAILABLE

Whatever size you're looking for, we can build it to the exact specs that work for your project.

### ADDITIONAL SPECS

- 1/4" PLATE STEEL
- 3.5 X 5 3/4" ANGLE
- 1 1/4" PIN WITH 1 1/2" HOLES
- 7 3/4" O.C. PIN SPACING
- 15.5" INTERIOR TRUSS SPACING
- EPOXY COATED
- SAND BLASTED
- RAKES END CAPS AVAILABLE

### ADD-ONS AVAILABLE

- TIE OFF CLEATS
- SPUDS
- INT. & EXT. SPUD POCKETS
- HD RAMPS
- HYDRAULIC RAMP LIFT SYSTEM
- MANUAL RAMP LIFT SYSTEM
- COMPARTMENTS & HATCHES
- SAFETY RAILS
- STEERING CONSOLE
- ENCLOSED WHEELHOUSE
- MOTOR MOUNTS
- DIVE LADDERS

## WARFAB 1 SERIES

### SIZES AVAILABLE

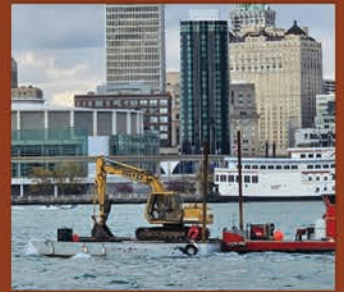
- 24' L X 8' W X 4' H
- 32' L X 8' W X 4' H
- 40' L X 8' W X 4' H

### ADDITIONAL SPECS

- 1/4" PLATE STEEL
- 4X3 1/2" ANGLE
- 1 1/8" PIN WITH 1 3/8" HOLES
- 15 1/2" O.C. PIN SPACING
- 16" INTERIOR TRUSS SPACING
- EPOXY COATED
- SAND BLASTED
- RAKES END CAPS AVAILABLE

### ADD-ONS AVAILABLE

- TIE OFF CLEATS
- SPUDS
- INT. & EXT. SPUD POCKETS
- HD RAMPS
- HYDRAULIC RAMP LIFT SYSTEM
- MANUAL RAMP LIFT SYSTEM
- COMPARTMENTS & HATCHES
- SAFETY RAILS
- STEERING CONSOLE
- ENCLOSED WHEELHOUSE
- MOTOR MOUNTS
- DIVE LADDERS



## WARFAB X SERIES



### SIZES AVAILABLE

- 20' L X 10' W X 5' H
- 30' L X 10' W X 5' H
- 40' L X 10' W X 5' H

### ADDITIONAL SPECS

- 1/4" PLATE STEEL
- 4X3 5/8" ANGLE
- 1 1/8" PIN WITH 1 3/8" HOLES
- 15 1/2" O.C. PIN SPACING
- 16" INTERIOR TRUSS SPACING
- EPOXY COATED
- SAND BLASTED
- RAKES END CAPS AVAILABLE

### ADD-ONS AVAILABLE

- TIE OFF CLEATS
- SPUDS
- INT. & EXT. SPUD POCKETS
- HD RAMPS
- HYDRAULIC RAMP LIFT SYSTEM
- MANUAL RAMP LIFT SYSTEM
- COMPARTMENTS & HATCHES
- SAFETY RAILS
- STEERING CONSOLE
- ENCLOSED WHEELHOUSE
- MOTOR MOUNTS
- DIVE LADDERS

## WARFAB XL SERIES

### SIZES AVAILABLE

- 20' L X 10' W X 7' H
- 30' L X 10' W X 7' H
- 40' L X 10' W X 7' H

### ADDITIONAL SPECS

- 1/4" PLATE STEEL
- 3.5 X 5 3/4" ANGLE
- 1 1/4" PIN WITH 1 1/2" HOLES
- 7 3/4" O.C. PIN SPACING
- 15.5" INTERIOR TRUSS SPACING
- EPOXY COATED
- SAND BLASTED
- RAKES END CAPS AVAILABLE

### ADD-ONS AVAILABLE

- TIE OFF CLEATS
- SPUDS
- INT. & EXT. SPUD POCKETS
- HD RAMPS
- HYDRAULIC RAMP LIFT SYSTEM
- MANUAL RAMP LIFT SYSTEM
- COMPARTMENTS & HATCHES
- SAFETY RAILS
- STEERING CONSOLE
- ENCLOSED WHEELHOUSE
- MOTOR MOUNTS
- DIVE LADDERS



Contact Ryan or Jordy at Warkentin Fabricating today to discuss your next barge.

f Warkentin Fabricating

@warkentin fabricating

WWW.WARKENTINFAB.COM

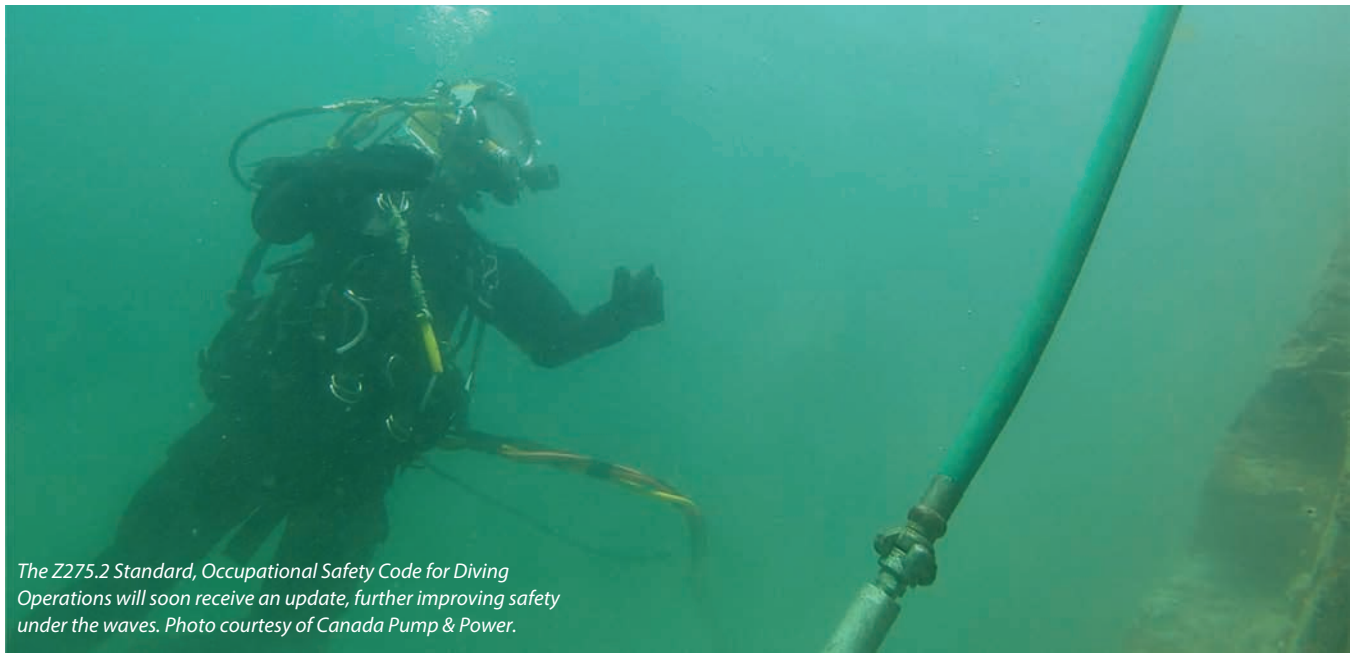
1-888-WARFAB1 (927-3221)

ryan@warkentinfab.com

jordy@warkentinfab.com

# In Depth: CSA Standard Z275.2: Occupational Safety Code for Diving Operations

By Jonathan Chapple, Five Bells Consulting



*The Z275.2 Standard, Occupational Safety Code for Diving Operations will soon receive an update, further improving safety under the waves. Photo courtesy of Canada Pump & Power.*

## This article was written

**following** the spring meetings of the Canadian Standards Association (CSA) Z275 Technical Committee (TC) and Technical Sub-Committees (TSC) in Saint John, New Brunswick. The Z275.2 TSC is the custodian of the *Z275.2 Standard, Occupational Safety Code for Diving Operations*, and is actively working on the next edition, due in 2026.

## Why is the Z275.2 Standard important?

The answer to why the Z275.2 Standard is important is fairly straightforward. The Z275.2 Standard is a recognized National Standard of Canada and therefore it sets the norms across the country. Standards are developed by committees, in this case CSA, composed of subject matter experts and representatives of relevant interests including users, producers (e.g. commercial diving schools), trade associations (e.g. Canadian Association of Diving Contractors (CADC)), government, and regulatory bodies. The Z275.2 Standard literally sets the standards that cascade down into diving regulations. When we get it right at CSA, it is highly

likely that we will see it reflected in our future diving rules.

## What new items will be in the next edition of Z275.2?

Here are some of the subjects that are underway for inclusion in the next edition:

- **Risk assessment:** The TSC recognizes that the risk assessment process is used by many industries worldwide including diving. This vitally important process, and the various parts of it, will be covered by new Definitions and Clauses that will establish the need for, and explain, the risk assessment process. An Annex will provide further explanatory notes and provide guidance for those completing risk assessments. The relationship of the risk assessment process to the Standard is also explained – basically, a risk assessment cannot be used to reduce the minimum levels set by the Standard, but it can be used to improve on them. This is probably the most important subject to be included in the Z275.2 Standard.
- **Diving in currents:** A clause on the hazards involved and a

straightforward guidance table to assist dive supervisors and divers will be included in the next edition.

- **Definition of underwater construction site:** For the first time, a clear definition for ‘underwater construction site’, one that aligns well with existing federal and provincial above-water construction terminology, has been introduced. Existing prohibitions on the use of SCUBA have been expanded to include diving on underwater construction sites although the TSC recognizes that diving in SCUBA is not only well-established but also can be a useful tool in the appropriate circumstances.
- **Human Factors in Diving (HFID):** For the first time HFID is acknowledged as having a major influence on the safety and success of a diving task. Diving is not just about the technical – or ‘hard’ – skills associated with diving equipment, physics, and SOPs. HFID includes non-technical skills (e.g. communication, teamwork, situation awareness and leadership) and Diving Crew Resource Management (e.g. group cohesion, communication and

# JORDAIR COMPRESSORS

A BREATH OF FRESH AIR



## Newly Designed Custom Compressors 2021

Features include technically advanced digital design with active customer interface, nationally certified 7300 PSIG filter systems, and panel mounted CO Monitoring system.

**JORDAIR**

COMPRESSORS INC.

**Bauer and Jordair** provide safe and reliable products backed by over 45 years of breathing air compressor expertise. **Jordair** is CRN registered in all provinces across Canada and CSA certified.

**Jordair Compressors Inc.**  
205-6901 72 St., Delta, B.C., V4G 0A2  
**Tel/Fax:** 604-940-8101  
**Web Site:** [www.jordair.ca](http://www.jordair.ca)  
**E-mail:** [info@jordair.ca](mailto:info@jordair.ca)




risk management). All of these 'soft skill' factors must be considered during occupational diving and guidance will be published in the next edition.

These items – and more – have been subject to an immense amount of (unpaid) work by CSA committee members since the current edition of the Z275.2 *Standard* was published in 2020. I emphasize that the sole objective of both the TC and TSC is to make occupational diving safer, not to put rules in place that make life more difficult.

### Internal trade barriers: Where are we and what next?

The national discussion relating to inter-provincial trade barriers is timely. The Z275.4 *Standard* (the 'competency standard') has been a trailblazer as the diving, hyperbaric, and ROV competencies detailed in the Z275.4 *Standard* are already recognized across Canada. There was complete agreement on this at the recent Canadian Underwater Conference & Exhibition (CUCEx) held at the end of March in Richmond, British Columbia.

What's next? Perhaps, using the recognition of Z275.4 competencies as a precedent, we can persuade all provinces to recognize the Z275.2 *Standard, Occupational Safety Code for Diving Operations*. Some already do and any move towards a uniform set of diving regulations across the country is another step towards removing an internal trade barrier and making life a bit easier for everyone who works in the Canadian underwater industry. 

Jonathan Chapple is the President of Five Bells Consulting. A former United Kingdom Royal Navy mine warfare and clearance diving officer (MCDO) and the former Vice President of Aqua-Lung Canada Ltd., Jonathan is an experienced dive supervisor, diver and technician instructor.

## SHIP TO SHORE DIVING & ENGINEERING LTD.



410 Ammon Road  
Moncton, NB E1G 3N6  
[shiptoshore@nb.aibn.com](mailto:shiptoshore@nb.aibn.com)

Tel: 506-389-3483 (DIVE)  
Fax: 506-389-3486  
Toll Free: 888-628-0400

**David V. Lewis, P.Eng.**  
President  
Canadian Association of Diving Contractors  
(CADC) member



## Dates for the Diary

**2026 Canadian Underwater  
Conference & Exhibition**

March 22-24, 2026

Toronto, Ontario

Holiday Inn Toronto International  
Airport

For more information, visit [www.cuce.ca](http://www.cuce.ca)

# When Is It a Commercial Dive?

By Doug Elsey, P.Eng., Executive Director,  
Canadian Association of Diving Contractors

### You're standing on the dock

and someone says, "Hey, can you just pop down and check the prop?" Maybe they offer you a few bucks. Maybe a beer. Maybe it's just 'to help out.'

That's the moment the line gets crossed – and most don't even see it.

In Canada, it doesn't take a contract or a paycheque to be a worker under the law. Accepting anything in return – whether it's cash, a favour, or even a meal – can make you a worker under occupational health and safety legislation. And if you're doing a task that benefits someone else's business or supports a work operation – congratulations – that's a commercial dive.

No one logs it. No one does a hazard assessment. No one checks the diver's med clearance or insurance coverage. But the risk is real.

This isn't just paperwork. Commercial diving is regulated for a reason. Provincial Occupational Health and Safety (OHS)

dive regulations and the CSA Z275.2 *Dive Operations* standard defines how diving operations must be run, and Z275.4 *Dive Competency* lays out the required competencies for the diver. These standards are backed by law. If you don't follow them and someone gets hurt, it's not a slap on the wrist. Under Bill C-45, it can be criminal negligence and people have gone to jail for less.

### Know the risk


The crossover happens all the time. Maybe it's a dive instructor scrubbing boat hulls on weekends, shop hand recovering a lost anchor for a 'tip,' or a buddy cleaning an intake screen at the cottage for a case of beer. But, if the dive supports a commercial interest and involves any form of payback, it's no longer recreational – it's occupational diving. You can't just hope that nobody notices.



Recreational training simply doesn't cover the risks, the gear, or the protocols and – if it goes sideways – the insurance won't cover it. Not for the diver. Not for the client. And not for the business.

### The takeaway

Bottom line? If you're not a certified commercial diver working under a CSA-compliant system, stay out of the water. And if you're the one hiring, you better know who's getting wet on your behalf – because you might be the one standing in front of a judge.

This isn't about depth. It's about liability. Know the line; and don't cross it blind. 


PUMP – DIVE – BARGE – DREDGE – DEWATERING – SEDIMENT CONTROL

## Northern Underwater Systems

Your trusted partner for commercial diving with over 50 years of experience

Calgary, AB – Castlegar, BC – Edmonton, AB – Ft McMurray, AB – Prince George, BC – Saskatoon, SK – Surrey, BC – Winnipeg, MB – Yellowknife, NT



 1 (800) 328-3494

 [www.canadiandewatering.com](http://www.canadiandewatering.com)



**NEW**

# WE ARE HIRING

**UnderwaterJOBS.com 2.0**

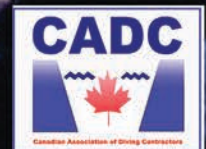
**for UNDERWATER PROFESSIONALS**

- For Job Seekers
- For Employers
- For Recruiters

## **AI POWERED JOB MATCHING:**

UnderwaterJOBS.com - sponsored in part by the CADC - is an AI powered job search website redesigned for speed and accuracy to match underwater professionals to current underwater jobs below a waterline—ANYWHERE.

- Mobile Smart Phone Friendly
- Search and apply online
- Free registration for Jobseekers.
- Free trial Plan for Employers and Recruiters
- Automatic job <> resume matching emails.



**Go to "UnderwaterJOBS.com**

## CADC Membership Listings

### ALBERTA

#### Allied Commercial Divers Ltd.

Brad Niehaus  
Edmonton, AB  
(780) 439-1889  
brad.niehaus@allieddivers.com

#### Aquatech Diving & Marine Services Ltd.

Steve Berube  
Eckville, AB  
(403) 913-6690  
steveb@aquatechdiving.ca

#### Canada Pump and Power Corp.

Jeremy Leonard  
Fort Saskatchewan, AB  
(780) 922-1178  
jleonard@investologist.com

#### Northern Underwater Systems LP

Bill Stark  
Edmonton, AB  
(403) 650-0474  
wstark@nusgroup.com

#### True Depth Marine Contractors

Mark Jensen  
Spruce Grove, AB  
(780) 913-6452  
mark@tddive.com

### BRITISH COLUMBIA

#### Camcor Diving Inc.

Cory Beaudry  
Sidney, BC  
cory.camcor@gmail.com

#### Canadian Marine Contractors

Tim Thompson  
Kelowna, BC  
(250) 681-4044  
timthompson@cmcsubsea.com

#### CANPAC Marine Services

Ryan Anderson  
Vancouver, BC  
(604) 984-8383  
ryan.anderson@canpacmarine.com

#### DeepSix Subsea

Fraser Keil  
West Kelowna, BC  
(236) 795-2062  
fraser@deepsixsubsea.com

#### Diving Dynamics CDI

Vern Johnston  
Kelowna, BC  
(250) 861-1848  
operations@divingdynamics.com

#### Fraser Burrard Diving Ltd.

Tony Sandberg  
Maple Ridge, BC  
(604) 940-9177  
fbdiving@gmail.com

#### Inland Divers Underwater Service Ltd.

Boomer Hurlburt  
Kelowna, BC  
(250) 801-2855  
info@inlanddivers.com

#### North Pacific Divers / Orcinus Marine

Geoff Grime  
Victoria, BC  
(250) 883-2660  
geoffgrime@gmail.com

#### SeaVeyors Environmental & Marine Services Ltd.

Darren Horler  
Black Creek, BC  
(250) 207-5620  
info@seaveyors.ca

#### Seawolf Diving Inc.

Rob Alliston  
Garden Bay, BC  
(604) 883-8148  
rob@seawolfdiving.ca

#### South Coast Diving Ltd.

Pat Thompson  
Victoria, BC  
(250) 361-1556  
sedldive@gmail.com

### MANITOBA

#### Dominion Divers Marine Contractors

Garth Hiebert  
Navin, MB  
(800) 599-4933  
ghiebert@dominiondivers.ca

### NEW BRUNSWICK

#### 3D Marine Inc.

Jamie Dobbin  
Shediac, NB  
(506) 850-4777  
dive@3dmarine.ca

#### Mako Diving and Marine Services

Joe George  
Lincoln, NB  
(506) 349-5110  
joe@makodiving.ca

#### Ship to Shore Diving & Engineering

David Lewis, P.Eng.  
Ammon, NB  
(506) 389-3483  
shiptoshore@nb.aibn.com

### NEWFOUNDLAND & LABRADOR

#### Afonso Group Ltd.

Steve Chafe  
St. John's, NL  
(709) 576-6070  
schafe@afonsogroup.com

#### Bailey's Marine Services Ltd.

Dean Bailey  
Kippens, NL  
(709) 643-9260  
baileysmarinedean@gmail.com

#### Sea-Force Diving Ltd.

Barry Hynes  
Mount Pearl, NL  
(709) 753-2021  
barry@seaforcediving.com

### NOVA SCOTIA

#### CDMS Atlantic

Kensen Jardine  
Edwardsville, NS  
(902) 562-6061  
kjardine@cdmsatlantic.ca

#### Connors Diving Services Ltd.

Tim Connors  
Lakeside, NS  
(902) 876-7078  
tim@connorsdiving.com

#### Dominion Diving Ltd.

Matthew Lohnes  
Dartmouth, NS  
(902) 434-5120  
diving@dominiondiving.com

#### Huntley's Diving and Marine Services

Mike Huntley  
Kentville, NS  
(902) 678-7234  
mike@huntleysdivingandmarine.ca

### ONTARIO

#### ASI Group

Richard Engel  
Stoney Creek, ON  
(905) 643-3283  
rengel@asi-group.com

#### Big Lake Dive & Marine

Judson Beals  
Thunder Bay, ON  
(807) 627-7631  
judson@biglakedive.com

#### Canadian Underwater Inspection Services Ltd.

Aaron Snyder  
Foxboro, ON  
(613) 885-3369  
asnyder@cuis.ca

#### Cinematic Dive Productions

Rob Shannon  
Oakville, ON  
(647) 333-4837  
info@oakvilledivers.com

#### Crew Maritime Group Inc.

Bill Wiley  
Niagara, ON  
(905) 931-3986  
crewuifs@gmail.com

#### Diving Services

Brian McCrodan  
Peterborough, ON  
(705) 742-5817  
bmc@divingservices.net

#### Dundee Marine

Shaun Rafferty  
Hartington, ON  
(613) 539-5337  
shaun@dundeemarine.ca

#### Galcon Marine Ltd.

Dave Gallagher  
Toronto, ON  
(416) 255-9607  
dave@galconmarine.com

#### LAGASCO Inc.

Mike Waldie  
Port Maitland, ON  
(519) 755-1256  
mwaldie@lagasco.ca

#### ODS Marine

Jim Freeth  
Ottawa, ON  
(613) 821-3988  
jim@odsmarine.com



**PERFORMANCE  
LINES  
FOR DIVING**

Rescue Rope

Shock Cords

Float Rope

Umbilical

Reflective

Mooring

Sinking

Braid



CANADA'S  
PREMIER ROPE  
MANUFACTURER

**www.novabraid.com**  
**866-841-3504**

**Ontario Power Generation**

Paul Campbell  
Port Hope, ON  
(905) 885-3000, ext. 3052  
paul.campbell@opg.com

**Soderholm Maritime Services Inc.**

Adrian Brown  
Etobicoke, ON  
(905) 529-1344  
admin@smsi-canada.com

**PRINCE EDWARD ISLAND**

**Atlantic Commercial Diving Centre**

Kimball Johnston  
Summerside, PEI  
(902) 888-9393  
info@acdpei.com

**Diversified Divers Inc.**

James Landrigan  
Hazelbrook, PEI  
(902) 894-7080  
james@diversifieddiversinc.ca

**JD Marine & Diving**

Jamie Thompson  
Cardigan, PEI  
(902) 330-5879  
jdmarineanddiving@gmail.com

**QUEBEC**

**Expertech Marine Inc.**

Marc-André Désy  
Quebec, QC  
(418) 694-7444  
madesy@expertechmarine.com

**Mistras Services**

Olivier Bicari  
Ste-Julie, QC  
(450) 922-3515  
olivier.bicari@mistrasgroup.com

**MVC Océan Inc.**

Kevin Milot  
Trois Rivières, QC  
(819) 377-2856  
kmilot@mvcocéan.com

**PSM Technologies Inc.**

Yves Bécotte  
Trois-Rivières, QC  
(514) 856-5646, ext. 401  
yves.becotte@etpopsm.com

**UNITED STATES**

**J.F. Brennan Company, Inc.**

Justin Scherf  
Ottawa, IL  
(815) 979-8973  
jscherf@jfbrennan.com

**ASSOCIATE MEMBERS**

**AON - Insurance / Risk Management**

Russell Saffrey  
Toronto, ON  
(416) 868-2426  
russell.saffrey@aon.ca

**AXSUB Inc.**

Eric Gaudreau  
Rimouski, QC  
(418) 731-1539  
sales@axsub.com

**Canadian Coast Guard**

David Dalzell  
Richmond, BC  
(604) 278-7717  
david.dalzell@dfo-mpo.gc.ca

**Canadian Forces Diving Safety / DND**

Neville Lockyer  
Ottawa, ON  
(343) 576-0423  
neville.lockyer@forces.gc.ca

**Deep Tech Services Ltd.**

Doug Elsey  
Mississauga, ON  
(905) 542-3223  
delsey@deeptech.com

**Divers Institute of Technology Inc.**

Dave Ruggieri  
Seattle, WA  
(206) 783-5542  
druggieri@diversinstitute.edu

**DiveSafe International**

Reggie Latham  
Campbell River, BC  
(250) 287-3837  
reggie@divesafe.com

**Institute maritime du Quebec**

Marianne Castonguay  
Rimouski, QC  
(418) 724-2822 ext. 4500  
adminicfp@imq.qc.ca

**Ontario Provincial Police**

**– Underwater Search & Recovery Unit**

Mike Coo  
Gravenhurst, ON  
(705) 330-6040  
michael.coo@opp.ca

**Underwater Skills Institute**

Aaron Griffin  
Stouffville, ON  
(647) 308-0223  
griffin@underwaterskills.ca

**INDIVIDUAL / SUPPORTING MEMBERS**

**Bob Landry**

Scarborough, ON  
(416) 931-6552  
rwlandry@sympatico.ca

**Dave Geddes (Advisor)**

Past President CADC  
Tillsonburg, ON

**Gord Hay (Advisor)**

Past President CADC  
Buckhorn Ontario

**Jim English**

Lions Bay, BC  
(778) 280-5056  
jimenglish@shaw.ca

**John McFadzen (Advisor)**

Past President CADC  
Island View, NB

**Jonathan Chapple**

Halifax, NS  
(250) 507-2743  
jonathanchapple1@gmail.com

**Oceaneering Canada**

Brian Dodgson  
Paradise, NL  
(709) 570-7072  
bdodgson@oceaneering.com



Commercial Diving Institute of Canada



### Training Canada's Next Generation of Commercial Divers

- Unrestricted Surface Supplied 50m
- Inshore Air Diving Supervisor
- DMT/IMCA Full and Renewal Courses
- KMDSI Full Tech Training Centre
- Canada's No 1 Training Platform
- Canada's No 1 Training Provider

1.250.861.1848

[www.commercialdivinginstitute.com](http://www.commercialdivinginstitute.com)



# BIG LAKE

DIVE & MARINE

## Serving Thunder Bay & Northwestern Ontario since 1988

807-627-7631

[judson@biglakedive.com](mailto:judson@biglakedive.com)

[www.biglakedive.com](http://www.biglakedive.com)

Proud Member of the CADC



3Dmarine.ca  
506-850-4777

### Our Services

- Commercial Diving
- Marine Construction
- Inspection & Repairs
- Marine Salvage
- Non-Destructive Testing



### ATLANTIC COMMERCIAL DIVING CENTRE

THE MOST DIVERSE TRAINING AVAILABLE, SPECIALIZING IN UNDERWATER WELDING

Unrestricted Surface Supplied Diver Certification (USSD)  
Next intake beginning January 2026

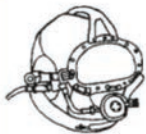
ON SITE RESIDENCE AVAILABLE

SUMMERSIDE, PEI

EMAIL: [INFO@ACDCPEI.COM](mailto:INFO@ACDCPEI.COM)

TELEPHONE: 902-886-2288

[WWW.ATLANTICCOMMERCIALDIVINGCENTRE.COM](http://WWW.ATLANTICCOMMERCIALDIVINGCENTRE.COM)



[www.divingservices.net](http://www.divingservices.net)  
[bmc@divingservices.net](mailto:bmc@divingservices.net)  
BUS: 705-742-5817 (available 24/7)  
CELL: 705-749-7297  
FAX: 705-742-0807

## DIVING SERVICES INCORPORATED

CERTIFIED CONSTRUCTION MILLWRIGHT - MECHANIC  
UNDERWATER PROJECT CONSULTANTS  
UNDERWATER FULL TIME VIDEO  
AND  
DIGITAL PHOTOS DOCUMENTATION  
SEAMOR 300F ROV INSPECTION

**BRIAN McCRODAN**

171 RINK ST., SUITE 140  
PETERBOROUGH, ON K9J 2J6

## DIVERSIFIED DIVERS INC.

**James Landrigan**  
Owner/Commercial Diver

Tel/Fax: (902) 894-7080  
[diversquarters@bellaliant.com](mailto:diversquarters@bellaliant.com)

RR#1 Trans Canada Highway  
Hazelbrook, PE C1B 0R9



- Underwater Welding
- Underwater Cutting
- Underwater Video
- Digital Photography
- DCBC Certification

Over 20 Years Experience - 24 Hour Service

# index to advertisers

 Advertisers with this logo beside their name are members of the CADC.

## AIR COMPRESSORS

Jordair Compressors Inc. .... 36

## BRAZIL PUMP AND POWER

 Canada Pump and Power.....outside back cover

## CANADA PUMP AND POWER

 Canada Pump and Power.....outside back cover

## CANADIAN UNDERWATER CONFERENCE

Diver Certification Board of Canada..... 16

## COMMERCIAL DIVE HARNESSES, TOOLS, EQUIPMENT, AND APPAREL

Water Safety Stop Inc. .... 21

## COMMERCIAL DIVER TRAINING

 Atlantic Commercial Diving Centre..... 41

## COMMERCIAL DIVING CONSTRUCTION / UNDERWATER SURVEYS AND INSPECTIONS

 3D Marine..... 41

## COMMERCIAL DIVING CONTRACTOR

 Big Lake Dive and Marine ..... 41

## COMMERCIAL DIVING EQUIPMENT AND SUPPLIES

 AXSUB Inc. .... 4

 Connors Diving ..... 14

Dive Commercial International Inc. .... 42


Kirby Morgan Dive Systems

International ..... inside front cover

## DIVER TRAINING

 Diving Dynamics - CDI..... 41

## DIVING AND ENGINEERING

 Ship to Shore Diving & Engineering..... 36

## DIVING CONTRACTORS

 Canpac Marine Services Inc. ....inside back cover

 Diversified Divers Inc. .... 41

 Expertech Marine ..... 18

 Northern Underwater Systems -

Canadian Dewatering ..... 37

## DIVING EQUIPMENT AND SUPPLIES

INTERSPIRO Inc..... 24

## DIVING SERVICES

 Diving Services Incorporated..... 41

 Soderholm Maritime Service..... 42

## HOT WATER HEATERS


Custom Design and Fabrication..... 3

## INDUSTRY EVENTS

Underwater Intervention & The International

Work Boat Show..... 31

## MARINE CONSTRUCTION

 Galcon Marine Ltd. .... 30

 ODS Marine ..... 30

## MARINE CONSTRUCTION AND BARGE SERVICES

Warkentin Fabricating Inc..... 34

## MARINE CONTRACTORS

 Dominion Divers Ltd..... 17

## PACIFIC PUMP AND POWER

 Canada Pump and Power.....outside back cover

## PRESSURE VESSELS FOR HUMAN OCCUPANCY

Hydrospace Group Inc. .... 21

## ROPE MANUFACTURER

Novatec Braid Limited ..... 40

## SONAR EQUIPMENT

Imagenex..... 13

## SUBSEA SERVICES

 DeepSix Subsea..... 6

## UNDERWATER LIFT BAGS

Subsalve USA..... 8

## UNDERWATER SEARCH EQUIPMENT

JW Fishers ..... 18

## Have you booked your ad spot yet?



Don't miss your chance to put your company in front of key industry professionals and decision-makers across Canada.

Call (866) 999-1299 or e-mail [sales@matrixgroupinc.net](mailto:sales@matrixgroupinc.net)

**DIVE COMMERCIAL INTERNATIONAL**  
 Axsub Birns Broco Cavidyne Diteq KMDSI Nuvaair Outland Stanley  
**206-784-5050 [divecommercial.com](http://divecommercial.com)**

**SODERHOLM**  
 MARITIME SERVICES

**40+** YEARS OF SERVICE | **WE'RE READY AND ABLE TO MEET YOUR NEEDS.** | **24hr** EMERGENCY SERVICE

Our divers, underwater welders, and contractors are on-call and ready to respond.

For all your underwater needs, we are here to assist.

**1-800-319-3556**  
[admin@smsi-canada.com](mailto:admin@smsi-canada.com)  
**smsi-canada.com**

 Diver Certification BOARD OF CANADA 



**CANPAC  
MARINE  
SERVICES INC**

## SERVICES

- Salvage
- Marine Construction
- Submarine Cable Laying
- Underwater Ship Repair and Husbandry
- Bridge and Dam Construction and Maintenance
- Pipeline Installations
- Marine Terminal Inspection and Maintenance
- Observation and Work Class ROVs

Port of Vancouver Operations: 800 Glasgow Ave., Burnaby, V5C 0C9

Call Now:  
**604.984.8383**



**24/7**  
EMERGENCY  
RESPONSE



Website: [www.canpacmarine.com](http://www.canpacmarine.com)

Corporate office: 983 - 3rd Street, West, North Vancouver, V7P 1E4

CanPac Marine Services Inc.



# CANADA PUMP & POWER

DIVE • PUMP • BARGE • DREDGE

## COMPLEX MARINE PROBLEM?

DIVE - PUMP - BARGE - DREDGE



CERTIFIED

1-877-898-3494

TALK TO OUR ENGINEERS  
FOR A SOLUTION

**+1 (780) 922 1178**

[CANADAPUMPANDPOWER.COM](http://CANADAPUMPANDPOWER.COM)

[SALES@MIGHTYPUMPS.COM](mailto:SALES@MIGHTYPUMPS.COM)

CANADA - USA - BRAZIL