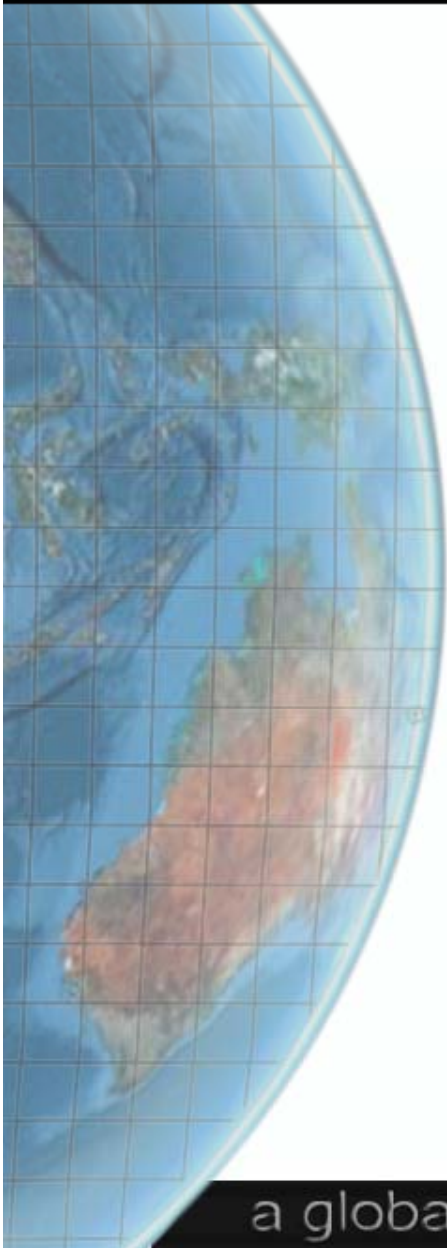


# ADAS Dive Supervisor Simulator

Rob Gatt  
Australian Diver Accreditation Scheme

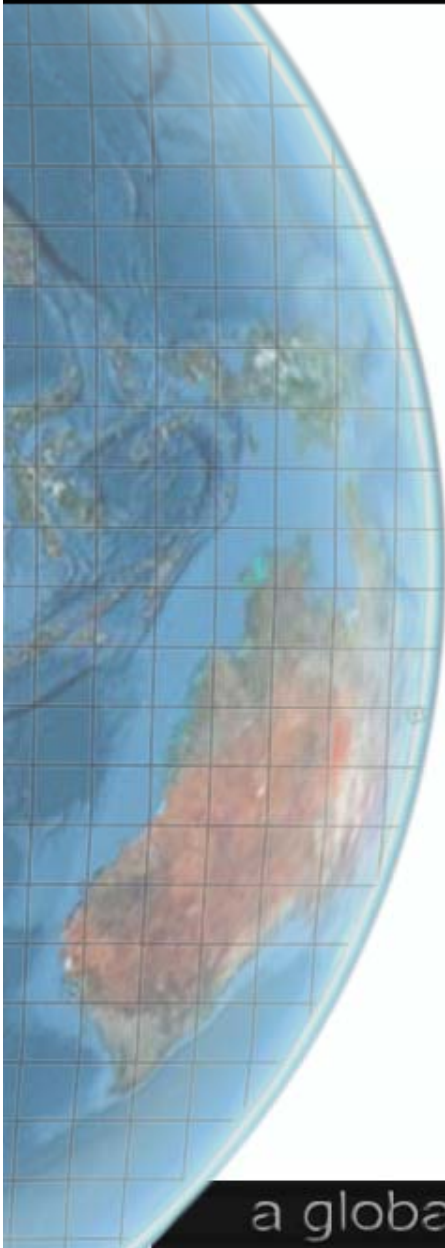






a global licence to dive !

## Gasless System



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# Students using the simulator



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# Supervisor Survey

Answer Options	Real	Simulated	Neither
Pressure loss	21	9	3
Control room / deck fire	4	14	13
Unconscious diver recovery	8	23	2
Injured diver recovery	15	16	3
Hot water failure	14	4	16
DP Runoff	16	6	11
Regulator failure	15	4	13
Air/Gas supply issue	23	7	4
Over run diver depth	8	7	15
Omitted decompression	4	9	18
Late arrival at stops	14	7	12
Exceeded planned bottom time	16	5	10

# Supervisor Survey

Answer Options	Real	Simulated	Neither
Exceeded surface interval	4	7	19
Winch failure	10	4	18
Reclaim failure	13	3	15
Hydrocarbon contamination	8	8	16
Excess / Insufficient O2	6	5	19
Excess CO2	13	9	9
Light / partial power failure	23	8	2
Dead ship	5	6	17
Therapeutic re compression	19	6	7
Non compliant staff	16	2	12
Diver entanglement	20	10	3
Narcosis affected diver	17	3	10
Barotrauma	7	5	18

# The Data?



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# Simulator Trial Findings

- Positive feedback
- Familiarisation
- Instructions one at a time
- Self paced and automatic scenarios ✓
- Emergency scenarios tend to require intervention

## Findings (cont.)

- Video is beneficial but audio is key
- Pairs of students ✓
- Instructor load is high
- Operator + assessor for assessment
- Observation was critical
- Normal diving ops and paperwork is as important as emergencies

## Findings (cont.)

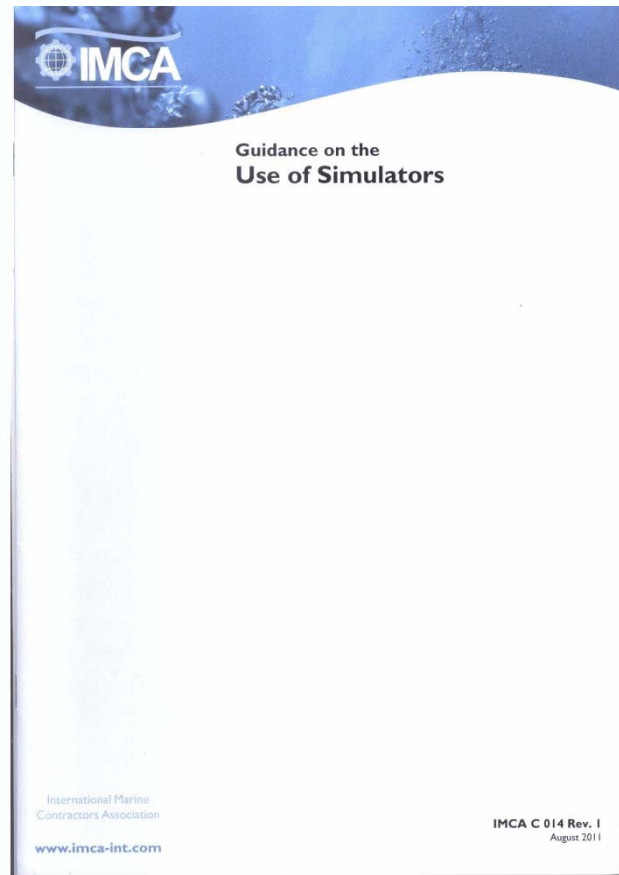
- Simulator operators.....

Who are they



and who should they be?

# IMCA



IMCA  
Statoil & Conoco Philips (OLF)  
ADAS  
DCBC  
NHC  
INPP  
Technip & Subsea 7

# Future Challenges

- Cost vs. benefit
  - Focused training
  - Efficient
  - No offshore costs
  - Efficient
- Avoid cost shift to students
- Accessibility
- Development time and future funding

## Where to now?

- Chamber simulator to be used for diver training immediately
- ADAS trainee Offshore Supervisors will be assessed using the simulator
- ADAS will offer the simulators for offshore trainees
- Continue to manage industry expectation

# Questions ?

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