

Stichting Duik Research 1970 - 2020

Symposium

Half a century Stichting Duik Research

Saturday 31 October 2020
Sietzes des Planten Zaal, B1-120
Academic Medical Centre, Amsterdam

Monoplace chamber, SDR



Next October Stichting Duik Research (SDR, Foundation for Diving Research) will celebrate its 50th anniversary with a symposium. Although being a small, non-profit, organisation run by inspired volunteers, in 50 years many meaningful activities were undertaken. This will be memorized in the first lecture by **Nico A.M. Schellart**, PhD, MSc, emeritus Assoc. Prof. (Medical physicist, University of Amsterdam).

The symposium will continue with Diving in very unusual environments: at very high altitudes and in basins of nuclear plants, given by **Jean Claude Le Péchon**, MSc, MEng (Consultant in hyperbaric health and safety at work, Hyperbarie, Paris).

Then we will be informed about the historically increasing importance of cardiac diving medicine by **Rienk Rienks**, MD, PhD (cardiologist, ret., diving physician, Utrecht Medical Centre).

Also, it informs about two intriguing applications of professional diving: the downfall of the coral biotope in the perspective of saving the biosphere of Mother Earth, presented by **Didier de Bakker**, PhD, MSc, (Tropical marine ecologist, Wageningen Marine Research),

and preserving the marine history of the Netherlands by open sea underwater archaeology given by **Martijn R. Manders** (PhD, MA, Assoc. Prof. (Archeologist, University Leiden).

The last lecture of the formal part of the symposium informs about the striking performance of diving sea mammals compared to human free diving, presented by **Mattijn Buwalda**, MD (anaesthesiologist-intensivist and dive medicine physician, Odijk).

The symposium will end with some festive talks and a reception.

Agenda 2020

09-05-2020 / 16-05-2020



Red Sea Marsa Shagra
Marsa Alem, Egypt

Programme

- Research on lung physiology
- CSD course on the ageing diver

Course info:

- n.a.schellart@amsterdamumc.nl
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Examination of dive computers,
SDR

Programme

Language: most lectures in Dutch, all slides in English

9:30 Ontvangst (Welcome)

10:00 10.05 Opening **Dr. Bernadette de Bakker**

10.05-10.45 **Nico A.M. Schellart** *Half a century research by Stichting Duik Research* Construction and exploitation of a monoplace chamber, visual research in open water, examination of the performance of dive computers, open sea and dive simulation studies with Doppler bubble detection and spirometer, 10 years Capita Selecta Diving Medicine.



Visual research in OW, SDR

10:45-11.30 **Jean Claude Le Péchon** *Diving in very unusual environments* Two situations will be addressed: high altitude (4500 m) diving with semi closed rebreather and diving in basins of nuclear power plants. What are the risks? Evaluation is the key to find out how to perform safely.

11.30 -12.15 **Rienk Rienks** *Diving cardiology, past and present* About 150 years ago large projects with compressed air work started. Much later large scale professional diving started. Under both conditions the focus was on safe decompression. It took nearly a century before the crucial disturbed physiological performance of the heart (and lungs) were noted.

Lunch

13.15-14.00 **Didier de Bakker** *The challenges associated with coral reef research* Coral reefs are among the richest ecosystems on earth. They have particular interest of divers, but not all realize the delicate balance in which these ecosystems exist, or will be aware of the processes underlying the dramatic ecological changes that are currently occurring on reefs worldwide.



Spirometry in OW studies, SDR

14:00-14.45 **Martijn R. Manders** *Diving at the service of marine under water archaeology* There are strict regulations to perform underwater archaeology by diving at the bottom of the sea. One of the things one needs anyhow is a professional diving license. Dive safety is a primary prerequisite and this may conflict with the aim of the archaeological work.

Break

15:05-15.50 **Mattijn Buwalda** *Anatomical and physiological adaptations of diving mammals* Why does the sperm whale (*Physeter macrocephalus*) not suffer from barotrauma, DCS and most importantly hypoxia? He can dive for more than two hours and reach depths up to 4 km. And all this with one set of lungs.

15.50 Feestelijke toespraakjes en Receptie

See www.duikresearch.org for a complete description of the program.

Accreditation

- The program comprises 4.5 oral contact hours. The Dutch NVAB, NVD, VSG and NICDA will be requested to provide 4 accreditation points for the meeting and “outside own specialism” (GAIA) will yield 4 points too for GP’s and clinicians. Course members from outside the Netherlands should personally apply to their own accreditation office.

In general, the level of the various lectures / subjects of the meeting are (at least) in accordance with that of EDTC and DMAC, level 1 (Medical Examiner).

Fees

- Physicians € 70,-
- Non – physicians € 30,-

The fee includes:

- The mentioned accreditations.
- Test, certificate (*only for physicians without Dutch BIG registration*), lunch and drinks and a reception.

Receipts will NOT be provided: use your registration confirmation or bank transcription.



Subjects, Marsa Sagra,

Registration

- starts 1 April 2020,
- transferring the fee to the bank account of:
Stichting Duik Research , NL51 INGB 0000 0337 31 (BIC/Swift INGBNL 2A)
- write on the transfer order under ‘description’: your name (with initials), e-mail address and BIG number (Dutch physicians).

In the lecture room, 45 seats are intended for physicians and 15 for non-physicians. Hence, early registration is recommended.

Hotels

Suggestions for nearby hotels are:

- Hotel Abcoude, Kerkplein 7, 1391 GJ Abcoude
+31 294 281 271, info@hotelabcoude.nl
Rooms from ca. 85 €/day
Bus connection with AMC: no. 120 and no. 126, 2 times per hour (ca. 15 min).
- Hotel Fletcher, Schepenbergrweg 50, 1105 AT Amsterdam +31 (0)20- 3113670 ,
<http://www.fletcherhotelamsterdam.nl/locatie>
Rooms from ca. 150 €/day
Walking distance (ca. 20 min in total)

Further:

- Hotel De Witte Dame, Rooms from ca. 120 €/day. <https://www.hoteldwd.nl/>
- Hotel de Goudvink, Rooms from ca. 140 €/day. www.hoteldegoudvink.nl/

Entertainment

Stay one more night for culture and entertainment in one of the most exciting cities of Europe with everything at walking distance.

- The Koninklijk Concertgebouw (Royal Concert Hall, acoustically the number 1 in the world and for years with the number 1 in-the-world orchestra, the Koninklijk Concertgebouw Orkest)
 - (Ticket should be ordered long in advance).
- The National Opera ('Stopera', opera and ballet)
 - (Ticket should be ordered long in advance).

And many more flamboyant podium art theatres.

Museums

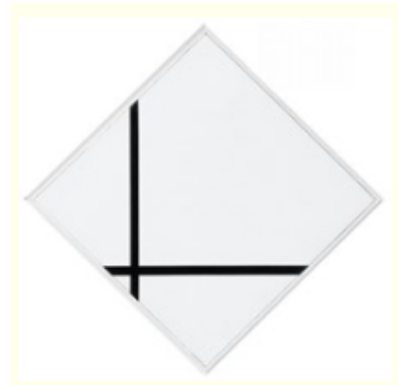
- Rijksmuseum (The National Museum), according to various rankings of general museums it belongs with the Louvre to the top 1-2 in Europe.
- Van Gogh Museum
- Stedelijk Museum (City Museum) with 20 Century Art
- Many more attractive museums.



Rijksmuseum
Rembrandt van Rijn
The "Nachtwacht"



Van Gogh Museum
Vincent van Gogh
Self-portrait



Stedelijk Museum,
Piet Mondriaan
Composition with 2 lines



Scheepvaartmuseum



The Amsterdam Canals
