

## SHORT-CV PROFESSOR KAJ SAND-JENSEN

DATE OF BIRTH 09.07.1950

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EDUCATION Cand. scient in Biology (Bio-math)

### SCIENTIFIC FOCUS AREAS

Aquatic ecosystem ecology, restoration and models. System metabolism of oxygen, carbon and calcium in lakes and streams. Greenhouse gas emission from wetlands. General plant ecology. Biodiversity, Ecophysiology of aquatic plants (light and inorganic carbon).

### POSITIONS

1975 Assistant professor, University of Copenhagen

1979 Associate professor, University of Copenhagen

1987 Professor in plant ecology and plant physiology, University of Aarhus

1989 Associate professor, University of Copenhagen

1998 Professor in stream ecology, Biological Institute, University of Copenhagen

### ACADEMIC HONORS

1983 Elected member of the Danish Academy of Natural Science (DNA)

1988 Teaching Prize in Biology by Aarhus Students

1999 Elected member of the Royal Danish Academy for Sciences and Letters

2005 Elected member and chairman (2009-2013) for Popular Science Lectures, Royal Academy

2005 Appointed Editor in Chief of the book series "Nature in Denmark".

2008 Elected member of Academic Council, Faculty of Natural Science

2008 Elected member of the Committee for Science Policy, Royal Academy

2013 Appointed advisor of good scientific practice, Faculty of Natural Science

2016 Awarded the Wesenberg-Lund Prize by Danish freshwater biologists

### RESEARCH LEADERSHIP AND MAIN EXTERNAL FUNDING

1979-1981 The River Suså-project (SNF+ME); headed with T. M. Iversen

1988-1992 Ecophysiology of plants in the land-water zone (DFF~ SNF)

1992-1995 Resource utilization and adaptation of riparian plants; extension (DFF)

1995-1998 O<sub>2</sub>, CO<sub>2</sub> and plants in streams (DFF); headed with T. Madsen

1995-1997 Ecological role of plants in streams (Strategic Environmental Program, SMP)

1997-2001 Distribution and abundance of marine plants (EU), five partners

2006-2011 Clear I – Lake restoration - Villum Kann-Rasmussen, Center of Excellence

2008-2012 Recovery of Danish Coastal Waters (Strategic Research); headed with M. Flink

2011-2013 Cocktail effects of pesticides in groundwater-fed ecosystems (Strategic Research)

2011-2013 Carbon dynamics in freshwaters (DFF)

2011-2016 Clear II – Lake restoration - Villum Foundation, Centre of Excellence

2013-2016 Nature quality and restoration of River Øle Å, Villum Foundation

2013-2018 Nature quality and development in restored Lake Filsø, AVJ-Nature Foundation

2015-2017 Extreme oxygen and temperature fluctuations in small lakes – Carlsberg Foundation

2017-2020 Optimal design of new lakes, AVJ-Nature Foundation

2017-2018 Carbon dynamics and CO<sub>2</sub>-emission in freshwaters, COWI Foundation

2019-2020 Chemical fingerprinting of catchment, AVJ-Nature Foundation (with T. Kragh)

2020-2024 Rewetting of low-lying areas – hydrology, greenhouse gases and biodiversity, DFF.

### TEACHING AND SUPERVISION

General ecology: biodiversity, species distribution and abundance; primary productivity.

Aquatic ecology: physiological ecology of aquatic plants in lakes, streams and marine waters.

Plant physiology: Utilization of light, inorganic carbon and nutrients; growth regulation

Environmental ecology and stress eco-physiology

Supervised about 50 M.Sc. students, 25 Ph.D-students, 16 Post Doctoral Fellows.

Six former students are Full Professors, two Associate Professors.

### OUTREACH

KSJ has numerous interviews and articles in TV, radio and large newspapers.

KSJ has served as an expert on aquatic science in parliament hearings.

KSJ has published many Danish books on natural science and biology a biography on world-famous Carl Wesenberg-Lund and an autobiography.

Chief editor of the comprehensive, five-book series on: "Nature in Denmark" (2005-2011).

Chief editor of the revised 2nd edition on "Nature in Denmark" (2017).

Member/chairman of the Committee for Popular Science Lectures, Royal Danish Academy (2007-2013)

### BIBLIOMETRICS

Kaj Sand-Jensen has (by May 2022) about 445 publications including about 230 refereed international articles and book chapters, 25 books and about 190 popular science articles.

KSJ has app. 22,725 (google scholar) citations for English science articles

KSJ has an H-citation index of 81 (google scholar)

KSJ has published six textbooks on general ecology, freshwater ecology and stream ecology. Most recent: Aquatic Plants of Northern and Central Europe including Britain and Ireland, Princeton 2023.

KSJ is reviewer for Nature, Nature Geoscience, Journal of Ecology, and numerous others.

#### INTERNATIONAL RELATIONS

Professors: Jan Karlsson, Umeå University, David Bastviken, Linköping University, Christer Brönmark, Lund University, Carlos Duarte King Abdullah University of Science and Technology