

**ROLF R. GRADINGER**

Institute of Marine Science, School of Fisheries and Ocean Sciences

P.O. Box 757220, Fairbanks Alaska 99775

**UNIVERSITY DEGREES:**

1990: Ph.D. degree (Marine biology) from the University of Kiel, Germany

1986: MS (Diploma) degree in Biology, University of Kiel, Germany

1982: BA in Biology, University of Mainz, Germany

**PROFESSIONAL RECORD:**

Since 2007: Associate Professor, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks

2001-2007: Assistant Professor School of Fisheries and Ocean Sciences, University of Alaska Fairbanks

1992-2000: Assistant Professor, Institute for Polar Ecology, University of Kiel, Germany

1990-1992: Post-Doc at the Alfred Wegener Institute for Polar and Marine Research in Bremerhaven, Germany (Department of Marine Biology)

1987-1990 PhD student at the Institute for Marine Research, Kiel, Germany

**SELECTED PUBLICATIONS:**

Gradinger, R., Meiners, K., Plumley, G., Zhang, Q., Bluhm, B.A. (2005): Abundance and composition of the sea ice meiofauna in off-shore pack ice of the Beaufort Gyre in summer 2002 and 2003. *Polar Biol.* (spec. issue) 28:171-181

Gradinger, R.R., Bluhm, B.A. (2004): *In situ* observations on the distribution and behavior of amphipods and Arctic cod (*Boreogadus saida*) under the sea ice of the high Arctic Canadian Basin. *Polar Biol.* 27: 595-603

Gradinger, R.R. (2001): Adaptation of Arctic and Antarctic ice metazoa to their habitat. *Zoology* 140: 339-345

Gradinger, R., Friedrich, C., Spindler, M. (1999): Abundance, biomass and composition of the sea ice biota of the Greenland Sea pack ice. *Deep-Sea Res.* 46: 1457-1472

Gradinger, R.R. (2002): Sea ice organisms. In: Bitton, G. (ed.): *The encyclopedia of environmental microbiology*. Wiley, New York, p. 2833-2844

Gradinger, R., Schnack-Schiel, S. (1998): The potential effect of ice formation on Antarctic copepods: salinity induced mortality of *Calanus propinquus* and *Metridia gerlachei*. *Polar Biol.* 20: 139-142

Schnack-Schiel, S., Dieckmann, G., Gradinger, R., Melnikov, I., Spindler, M., Thomas, D. (2001): Meiofauna in sea ice of the Weddell Sea (Antarctica). *Polar Biol.* 24: 724-728

Gradinger, R. (1999): Integrated abundance and biomass of sympagic meiofauna from Arctic and Antarctic pack ice. *Polar Biol.* 22: 169-177

Zhang, Q., Gradinger, R., Spindler, M. (1999): Experimental study on the effect of salinity on growth rates of Arctic sea ice algae from the Greenland Sea. *Boreal Environm. Res.* 4: 1-8

Gradinger, R., Spindler, M., Henschel, D. (1991): Development of Arctic sea ice organisms under graded snow cover. *Polar Res.* 10: 295-307

## **SYNERGISTIC ACTIVITIES:**

Leadership in initiating and developing interdisciplinary programs in polar waters: Shelf-Basin-Interactions Study Phase 2, Arctic Ocean Diversity project (Census of Marine Life project); European Subpolar Programme I, NOAA OE *Hidden Ocean* expeditions 2002, 2005, Bering Sea Ecosystem Studies

Editor of *Polar Biology* (for Arctic contributions) and referee for several journals (e.g., *Mar. Biol.*, *Mar. Ecol. Prog. Ser.*, *Deep-Sea Res.*)

Referee for funding agencies: Natural Environmental Research Council, United Kingdom, German Ministry for Research and Technology, National Research Council of Italy, National Science Foundation NSF, National Geographic Society.

Member of Scientific Panels: ARCUS Student Awards Committee (2002-2004), NOAA Panel on China-US Cooperation (since November 2002), UNOLS Arctic Icebreaker Coordinating Committee (2004-2007)

Chief Scientist USCGC Healy expedition: *Hidden Ocean* 2005, funded through NOAA OE.

At UAF: Senator in the faculty senate of the University of Alaska (2002-2004), Graduate Academic Advisory Committee of the Faculty Senate at UAF (2002-2004), Co-program head of SFOS Graduate Program (since 2007)

Public outreach through contributions to and creations of educational webpages <http://www.oceanexplorer.noaa.gov>, <http://www.arctic.noaa.gov/aro/russian-american/final-cruise-report.htm>, <http://www.sfos.uaf.edu/research/seaicebiota/cmi/barrow2002/>; <http://www.sfos.uaf.edu/research/arcdiv/>

Public presentations; radio, newspaper, and TV interviews locally and internationally with coverage in more than 8 language and over 25 countries

## **ARCTIC EXPERIENCE**

13 ship-based expeditions (Chukchi, Beaufort, Laptev, Barents, Greenland Seas, Central Arctic Ocean)

14 field periods based out of coastal field stations (Bering, Chukchi, Beaufort Seas)

Total of over two years at sea

## **ADVISORS AND COLLABORATORS:**

Ph.D. advisors: J. Lenz (Univ. Kiel)

Postdoc advisor: M. Spindler (Alfred-Wegener-Institute)

Involved in supervision of theses in Kiel, Germany: PhD: K. Meiners (2002), M. Carstens (2001), C. Krembs (1999), C. Friedrich (1997), I. Werner (1996); Master: H. Schuenemann (2001), J. Fehling (2000), T. Mock (1999), K. Meiners (1999), G. Donner (1999), K. Tuschling (1999)

Currently at UAF: three master students (M. Nielson, S. Story, B. McConnell), member of 9 additional student committees.

## **Other collaborators (excl. collaborators at University of Kiel or UAF) over last 48 months:**

Asia:

J. He, C. Bo (Polar Research Institute of China, China)

Q. Zhang (Second Institute for Oceanography, Hangzhou, China)

K. Shirasawa (Univ. Hokkaido, Japan)

Australia:

K. Meiners (Antarctic Climate & Ecosystems Cooperative Research Centre (ACE CRC), Australia)

Europe:

G. Dieckmann, S. Schiel (AWI Bremerhaven, Germany)

A. Gebruk (Shirshov Inst. Moscow, Russia)

J. Gray (Univ. Oslo)

W. Hagen, H. Auel (Univ. Bremen, Germany)

P. Martinez (Senckenberg Museum, Germany)

B. Sirenko (Zoological Institute St. Petersburg, Russia)

P. Wassmann (Univ. Tromsø)

North-America

D. Deibel (Univ. Newfoundland, Canada)

J. Grebmeier (Univ. Tennessee)

C. Krembs (APL, Seattle)

CV – Gradinger

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