

# CURRICULUM VITAE

## I. PERSONALIA

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**Nationality:** Belgian

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## II. STUDIES

**A. Secondary education:** 1988-1994: St.-Gertrudis Humaniora, Wetteren, Diploma Latin-Sciences

### **B. University education:**

University of Gent, Belgium

- **1<sup>st</sup> Candidature Biology:** 1994-1995: Distinction
- **2<sup>nd</sup> Candidature Biology:** 1995-1996: Distinction  
Diploma: Candidate in Biology (= First Cycle in Biology), University of Gent, Distinction
- **1<sup>st</sup> Licentiate Biology:** 1996-1997: Distinction  
Traineeships: Limnology in Overmere-Donk (June 1997)  
Systematics invertebrates in Buzenol (June 1997)  
Marine biology in Wimereux, France (31/08 – 07/09/1997)
- **2<sup>nd</sup> Licentiate Biology:** 1997-1998: Great distinction  
Undergraduate thesis: Diversity of epiphytic copepods associated with the tropical seagrass *Halodule wrightii* Ascherson (Quintana Roo, Mexico), Promotor: Prof. Dr. M. Vincx, Marine Biology Section  
Report Personal Practical: Evolutionary trends in feminization and intersexuality in woodlice (Crustacea, Isopoda) infected with *Wolbachia pipientis* (alpha-Proteobacteria)  
Diploma: Licentiate in Biology (= Second Cycle in Biology), Zoology, University of Gent, Great distinction

#### **Academic initial teacher training:**

Diploma: Qualified Teacher's Degree for Secondary Education - Section 2 in Biology, University of Gent, academic year 2000-2001: Distinction

Certificate of the **Doctoral Training in Biology**, University of Gent, obtained in September 2002

### **C. Postgradual courses**

- **Biodiversity of marine ecosystems**, September-October 1998, Department of Biology, University of Gent: Biodiversity Conventions – Prospects and problems in biodiversity monitoring: some terrestrial examples using beetles – Biodiversity and biogeography of protists – Measurement of biodiversity – Global patterns of biodiversity – Historical marine biogeography, the background for understanding present day biodiversity – Effects of biodiversity on ecosystem resilience – Biodiversity of marine macrophytes – Ethical aspects of biodiversity
- Course ‘**Oceanography**’ (academic year 1998-1999) by Prof. Dr. C. Heip, Department of Biology, University of Gent
- **Basic statistics for ecologists** (15-19 February 2001, course for Ph.D. students of the Graduate School of Functional Ecology in the Netherlands, academic year 2000-2001) by Dr. Peter M.J. Herman at the NIOO-CEMO, Yerseke
- **History and Philosophy of Biology** (academic year 2000-2001) by Prof. Dr. J. Braeckman, Department of Philosophy and moral sciences, University of Gent

- **Dredging and Offshore Works** (academic year 2001-2002) by Prof. Dr. J. De Rouck, Department of Civil engineering, University of Gent
- **Numerical Analysis of Biological and Environmental Data** (4-15 March 2002, ECRC short course, academic year 2001-2002) by Prof. Dr. H.J.B. Birks & Dr. M. Kernan in the Environmental Change Research Centre, University College London

## D. International traineeships

- Interuniversity Program of Cooperation ERASMUS: '**Marine biodiversity in the tidal zone, option Zoology and Marine Ecology**', 4-29 August 1997, at the Oceanographic Observatory of Roscoff (France)

## III. SCIENTIFIC CAREER

1 October 1998 - 2 November 2002: IWT grant (of the Institute for the Promotion of Innovation by Science and Technology in Flanders = IWT: <http://www.iwt.be/>)

7 November 2002 - 20 February 2003: research assistant in Biology (Zoology) at the University of Gent

7 July 2003: Doctor in Sciences (Biology)

**Ph.D. research:** 'Benthic copepod communities in relation to natural and anthropogenic influences in the North Sea: sediments, sand extraction and phytoplankton blooms' in the frame of the Federal Research Program of the Ministry of Science (OSTC) 'Sustainable management of the North Sea'

Promotor: Prof. Dr. M. Vincx, Marine Biology Section, University of Gent

22 July 2003 - 21 January 2006: Post-Doctoral researcher within the **EUMARSAND** (European Marine Sand and Gravel Resources: Evaluation and Environmental Impact of Extraction, contract n° HPRN-CT-2002-00222 EUMARSAND) project in the AZTI Foundation, Marine Research Division (coordination) (<http://www.azti.es/eumarsand/>). EUMARSAND is funded by the European Commission (FP5 Human Potential Programme Research Training Networks: Programme 'Improving the Human Research Potential and the Socio-economic Knowledge Base', Marie-Curie Fellowship)

## A. Scientific activities

### 1. Congresses and symposia

- **5th Benelux Congress of Zoology** on 6,7 November 1999 in Gent, Belgium, with oral presentation: Harpacticoid copepods associated with the seagrass *Halodule wrightii* Ascherson: spatial and taxonomic-hierarchical aspects of biodiversity
- **7th International Conference on Copepoda** in Curitiba, Brazil, 25-31 July 1999 with poster presentation: Anthropogenic effects on biodiversity of harpacticoid copepods associated with the seagrass *Halodule wrightii* Ascherson

- **Cooperation to the organization and coordination of the 3rd symposium SymbioSE '99** (Symposium for Biology Students from Europe), 7 - 14 August 1999 in Amsterdam, the Netherlands
- Winter symposium "**Richting geven aan de Ecologie** ("To find a direction for Ecology")", winter meeting of the Dutch-Flemish association for Ecology (NecoV) on 7 and 8 December 1999 in Antwerp, Belgium
- **14th International Senckenberg Conference: North Sea 2000**, Wilhelmshaven, Germany, 8-12 May 2000 with poster presentation: Harpacticoid communities on the Kwintebank: influenced by human-induced physical disturbances ?
- **VLIZ Young Scientists' Day** on 23 February 2001 in Bruges, Belgium, with poster presentation: The influence of marine sand extraction on benthic copepod communities
- **Ph.D.-symposium of the Faculty of Sciences** in Gent, Belgium, on 24 April 2001 with poster presentation: Marine sand extraction: direct and indirect impacts on benthic copepod communities, with this poster the author received a nomination in Biology
- **EuroConference: Biodiversity of Coastal Marine Ecosystems** (Pattern and Process) in Corinthe, Greece, 5-10 May 2001 with oral presentation: Diversity of Benthic Copepods in a Dynamic but Intensively Exploited Marine Environment
- **Eleventh International Meiofauna Conference** (ELIMCO) in Boston, U.S., 15-20 July 2001 with oral presentation: Harpacticoid Community Shifts on a Subtidal Sandbank: Defining the Impact of Marine Sand Extraction and poster presentation: TAXONLAN, a fully generic digital archive of species for biodiversity, morphology and taxonomy research by Deprez, T., Van Der Steichel, P., Bonne, W., De Smet, G., Steyaert, M., Vanaverbeke, J., Vanhove, S., Vanreusel, A., Wittoeck, J. & Vincx, M.
- **36th European Marine Biology Symposium: A Marine Science Odyssey into the 21st Century** in Menorca, Spain, 17-22 September 2001 with poster presentation: The impacts of marine sand extraction: geomorphological changes of a subtidal sandbank reflected by changes in harpacticoid communities (**36th EMBS**: <http://www.ub.edu/embs36/>)
- **Sustainable Management of the North Sea**: Presentation of the Research Results organized by The Prime Minister's Services Federal Office for Scientific, Technical and Cultural affairs (OSTC) on 21-22 January 2002 in Brussels, Belgium,
  1. with poster presentation: Impoverishment on the Kwintebank due to long-term intensive sand extraction
  2. co-author of the oral presentation: Structural and functional biodiversity of North Sea ecosystems: species and their habitats as indicators for a sustainable development of the Belgian continental shelf by M. Vincx, W. Bonne, A. Cattrijsse, S. Degraer, A. Dewicke, M. Steyaert, J. Vanaverbeke, G. Van Hoey, E. Stienen, J. Van Waeyenberghe, E. Kuijken, P. Meire, H. Offringa, J. Seys, F. Volckaert, E. Gysels, T. Huyse, M. Zietara, A. Geets, B. Hellemans
- **8th International Conference On Copepoda** in Keelung, Taiwan, 21-26 July 2002 (**8th ICOC**: <http://8thicoc.ntou.edu.tw/>) with oral presentations:
  1. As an invited speaker: The importance of systematic knowledge in environmental monitoring programmes: copepod community analysis in the North Sea
  2. The impact of sand extraction on harpacticoid communities in the North Sea
  3. The impact of eutrophication on harpacticoid communities in the North Sea

On this conference the author received an Award For Excellence in Student Presentation worth 200 US\$

- **37th European Marine Biology Symposium** in Reykjavik, Iceland, 5-9 August 2002 (**37th EMBS**: <http://www.37embs.is/>) with oral presentation: Effect of eutrophication on diversity and vertical distribution of a subtidal harpacticoid community in the southern North Sea
- **The Colour of Ocean Data: International symposium on oceanographic data and information management with special attention to biological data**, Brussels, Belgium, 25-27 November 2002, organized by the VLIZ
- **First Regional Conference on the 'Ecology and impact assessment of *Phaeocystis* blooms in the Eastern Channel and Southern Bight of the North Sea'** in Ostend, Belgium, 27-29 November 2002

## 2. Colloquia

- **Colloquium 'The implementation of the Convention on Biological Diversity by Belgium (CBD, Rio 1992) The state of affairs'**, on 17 November 1999 in Brussels, Belgium, organized by the University Association for the Environment (AUE) and the Royal Belgian Institute of Natural Sciences (KBIN)
- Discussion-evening about the **protection of the marine environment** as a result of the Federal Report Sustainable Management, organised by the provincial government West-Flanders, agency MIRONA, section Environmental Policy on 8 December 1999 in Bruges
- **Coastal and marine management: research sustaining policy in Flanders** on 9 November 2001 in Ostend, Belgium, organized by the VLIZ
- Colloquium '**Coastal zone management from a geo-ecological and economical point of view**' on 16-17 May 2002 in Ostend, Belgium, organized by the Society of Geologists of the University of Gent (GGG) and the VLIZ
- **Exploitation of marine sand and gravel in the framework of sustainable management** on 7 November 2002 in Brussels, Belgium, organized by the Ministry of Economic Affairs

## 3. Workshops

- Workshop in the framework of the project BALANS: **balancing human activities in the Belgian part of the North Sea** on 8 January 2003 in Gent, Belgium, organized by the Maritime Institute, Faculty of Law, University of Gent
- EUMARSAND Training workshop, 3 - 5 October 2003, Gent, Belgium. Theoretical courses on ADCP, prospecting techniques (multibeam, side-scan sonar, seismics), grain-size statistics and McLaren & Bowles (Gao & Collins) method, morphodynamic modelling, GIS concepts and introduction to the benthic fauna of the North Sea.
- Organisation EUMARSAND Training workshop, 16 - 20 February 2004, Pasaia, Spain. Experiment with wave- and current measurements on a beach in San Sebastian and theoretical and practical aspects of modelling and sediment dynamics; practical course on GIS.

- SANDPIT Progress Meeting (<http://sandpit.wldelft.nl/>, project in 5th framework of the EU Community Research Program, contract n° EVK3-CT-2001-00056,), 20 - 23 March 2004, Bergen, Norway
- Annual Meeting of the **ICES Working Group on the Effects of Extraction of Marine Sediments on the Marine Ecosystem** (WGEXT), 30 March - 2 April 2004, Isle of Vilm, Germany (<http://www.ices.dk/iceswork/wgdetail.asp?wg=WGEXT>)
- Annual Meeting of the **ICES Benthos Ecology Working Group** (BEWG), 19 - 22 April 2004, Pasaia, Spain (<http://www.ices.dk/iceswork/wgdetail.asp?wg=BEWG>)
- SedNet 4<sup>th</sup> Workshop: Harmonization of impact assessment tools for sediment and dredged materials, 10 – 11 June, San Sebastian, Spain
- EUMARSAND Training Course, 5 - 8 July 2004, MIG, Gdansk, Poland. Basics of Arc View 3.1 and Surfer-8 software, scripting and simple programming tools for effective work with GIS data. Analysis of black box data from extraction vessels in the North Sea.
- SANDPIT Progress Meeting (<http://sandpit.wldelft.nl/>, project in 5th framework of the EU Community Research Program, contract n° EVK3-CT-2001-00056), 11 – 15 September 2004, Nairn, Scotland
- Sand Transport and Morphology of Offshore Mining Pits, SANDPIT Final Meeting (<http://sandpit.wldelft.nl/>, project in 5th framework of the EU Community Research Program, contract n° EVK3-CT-2001-00056), 20 – 22 March 2005, Palermo, Sicily
- Co-organisation with CEFAS of the Annual Meeting of the **ICES Working Group on the Effects of Extraction of Marine Sediments on the Marine Ecosystem** (WGEXT), 5 - 8 April 2005, San Sebastian, Spain (<http://www.ices.dk/iceswork/wgdetail.asp?wg=WGEXT>)

#### 4. Project Reports

- Vanaverbeke J., W. Bonne & M. Vincx, 2000. Het meiobenthos van de subtidale zandbanken van het Belgisch Continentaal Plat (Meiobenthos on subtidal sandbanks of the Belgian Continental Shelf), p. 2-10. In: *Structural and Functional Biodiversity of North Sea Ecosystems: scientific activities report 1999, program 'Sustainable management of the North Sea', The Prime Minister's Services, Federal Office for Scientific, Technical and Cultural affairs*: 28 pp.
- Bonne W. & M. Vincx, 2001. Harpacticoidengemeenschappen op de Kwintebank en de mogelijke invloed van de zandontginning (Harpacticoid communities on the Kwintebank and the potential impact of sand extraction), p. 6-14. In: *Structural and Functional Biodiversity of North Sea Ecosystems: scientific activities report 2000, program 'Sustainable management of the North Sea', The Prime Minister's Services, Federal Office for Scientific, Technical and Cultural affairs*: 32 pp.
- Vanaverbeke J., M. Steyaert, W. Bonne & M. Vincx, 2001. Three decades of meiobenthos research on the Belgian Continental Shelf: an overview, p. 11-16. In: Cattrijsse A. & Vincx M. (Eds.) *Biodiversity of the Benthos and the Avifauna of the Belgian Coastal Waters: Summary of data collected between 1970 and 1998, The Prime Minister's Services Federal Office for Scientific, Technical and Cultural affairs*: 48 pp.

- Vincx M., W. Bonne, A. Cattijse, S. Degraer, A. Dewicke, M. Steyaert, J. Vanaverbeke, G. Van Hoey, E. Stienen, J. VanWaeyenberghe, E. Kuijken, P. Meire, H. Offringa, J. Seys, F.A.M. Volckaert, E. Gysels, B. Hellemans, T. Huyse, C. Pampoulie, 2002. Sustainable Management of the North Sea: Structural and functional biodiversity of North Sea ecosystems: species and their habitats as indicators for a sustainable development of the Belgian continental shelf, *Final Report, The Prime Minister's Services Federal Office for Scientific, Technical and Cultural affairs*: 106 pp.
- Bonne W. (Ed.), 2003 with contributions of W. Bonne, E. Garel, S. Le Bot, N. Blažauskas, I. Bagdanavičiute, S. Kortekaas, D. Idier & F. Manso. Periodic Progress Report RTN EUMARSAND (European Marine Sand and Gravel Resources: Evaluation and Environmental Impact of Extraction), European Commission: 10 pp. + annexes
- Bonne W. (Ed.), 2004a with contributions of W. Bonne, E. Garel, S. Le Bot, V. Bellec, A. Ballay, R. Radzevicius, N. Blažauskas, I. Bagdanavičiute, S. Kortekaas, D. Idier & F. Manso. Mid-Term Review Report RTN EUMARSAND (European Marine Sand and Gravel Resources: Evaluation and Environmental Impact of Extraction), European Commission: 39 pp. + reviews
- Bonne W. (Ed.), 2004b with contributions of W. Bonne, E. Garel, V. Bellec, A. Ballay, R. Radzevicius, N. Blažauskas, I. Bagdanavičiute, S. Kortekaas, D. Idier & F. Manso. Periodic Progress Report RTN EUMARSAND (European Marine Sand and Gravel Resources: Evaluation and Environmental Impact of Extraction), European Commission: 17 pp. + annexes
- Bonne W., 2004c. The effects of long-term sand extraction activities on copepod communities from the Kwintebank, p.15-24. In: *Scientific Report 2004 SPEEK (Study of Post-extraction Ecological Effects in the Kwintebank sand dredging area, EV/02/38A), research action 'Global change, Ecosystems and Biodiversity', Belgian Federal Science Policy*: 37 pp.

## 5. Scientific Journal Publications

- Vandekerckhove T.T.M., S. Watteyne, W. Bonne, D. Vanacker, S. Devaere, B. Rumes, J.-P. Maelfait, M. Gillis, J.G. Swings, H.R. Braig & J. Mertens, 2003. Evolutionary trends in feminization and intersexuality in woodlice (Crustacea, Isopoda) infected with *Wolbachia pipientis* (alpha-Proteobacteria). *Belg. J. Zool.*, 133: 65-74
- Muxika, I., A. Borja & W. Bonne, 2005. The suitability of the marine biotic index (AMBI) to new impact sources along European coasts. *Ecological Indicators*, 5 (1): 19-31.

In progress:

- Bonne W. & M. Vincx. The impact of marine sand extraction on harpacticoid communities of a subtidal sandbank in the North Sea
- Bonne W., A. Rekecki & M. Vincx. The indicator value of harpacticoid copepods in comparison with macrofauna on an intensively exploited sandbank
- Bonne W. & M. Vincx. Structural biodiversity of benthic copepod communities on two subtidal sandbanks in the North Sea
- Bonne W., E. Hoste & M. Vincx. Changes in harpacticoid communities during a spring phytoplankton bloom on subtidal sandbanks in the North Sea

- Bonne W., E. Hoste & M. Vinx. Vertical migration of harpacticoid copepods during a spring phytoplankton bloom on subtidal sandbanks in the North Sea
- Bonne W., F. Fiers & M. Vinx. Zonation of *Paraleptastacus* and *Kliopsyllus* species (Copepoda, Harpacticoida) on a subtidal sandbank (North Sea)

## 6. Awards

- Nomination in Biology for the poster 'Marine sand extraction: direct and indirect impacts on benthic copepod communities' on the Ph.D.-symposium of the Faculty of Sciences in Gent, Belgium, 24 April 2001
- Award For Excellence in Student Presentation (content and presentation of research results) worth 200 US\$ on the 8th International Conference On Copepoda in Keelung, Taiwan, 21-26 July 2002 handed by the Chairperson of the Local Organizing Committee Prof. Dr. Jiang-Shiou Hwang, the President of the World Association of Copepodologists Dr. Geoffrey A. Boxshall and the Chair of the Awards Committee and Vice-President of the World Association of Copepodologists Dr. Janet W. Reid

## 7. Work experience

- Sampling of meiobenthos, macrobenthos, hyperbenthos and epibenthos on the RV Belgica (Belgian Navy: A962 Belgica: <http://www.mil.be/navycomp/unit.asp?LAN=E&UNIT=Z31962>)
  - 1998 North Sea (1 campaign)
  - 1999 North Sea (10 campaigns, also on several other ships)
  - 2000 North Sea (2 campaigns) & Porcupine Seabight, Ireland (1 campaign)
  - 2001 North Sea (2 campaigns, 1 as chief scientist)
  - 2002 North Sea (1 campaign)
- Meio- and macrobenthos sampling and Multidisciplinary training (side-scan sonar, multibeam, seismics, current measurements, sediment grab sampling, sea bed video recording and water sampling)
  - 2003 North Sea (2 campaigns on R/V *Belgica* and 2 campaigns as chief scientist on R/V *Zeeleeuw*)  
<http://www.vliz.be/En/Activ/zeeleeuw.htm>  
Baltic Sea (1 campaign on R/V *Littorina*)
  - 2004 North Sea (1 campaign on R/V *Belgica* and 3 campaigns, 2 as chief scientist on R/V *Zeeleeuw*),  
Baltic Sea (1 campaign on R/V *Alkor*)  
<http://www.ifm.uni-kiel.de/ze/zs/alkor-e.htm>
- Sampling of meiobenthos and macrobenthos during an expedition to Antarctica on the Polarstern in April-May 2002 (Polarstern, Alfred Wegener Institute for Polar and Marine Research, Germany: <http://www.awi-bremerhaven.de/Polar/polarstern.html>)
- Coordination of the Research Training Network EUMARSAND (FP5 European Commission) with 9 partners of 8 countries

## B. Education activities

- Assistance Practical Invertebrata (University of Gent):
  - 1<sup>st</sup> Candidature Pharmacy (1998-1999, Prof. Dr. A. Coomans)
  - 1<sup>st</sup> Candidature Biology (1999-2000, 2000-2001, 2001-2002, Prof. Dr. M. Vincx)
  - 1<sup>st</sup> Licentiate Biology, Zoology (1998-1999, 1999-2000, 2000-2001, 2001-2002, Prof. Dr. M. Vincx)
- Assistance Traineeship Invertebrates, 1<sup>st</sup> Licentiate Biology, Zoology, in Wimereux, France (August-September in 1999 and in 2000, September 2001, September 2002, Prof. Dr. M. Vincx, University of Gent)
- Guidance excursions Invertebrata to Audreselles, France (1998-2001, Prof. Dr. M. Vincx, University of Gent)
- Cooperation to the educational information day organized by the Ministry of Education in Genk, Belgium, on 10 February 2001
- Mentor of Personal Practical 1<sup>st</sup> Licentiate Biology, Zoology (University of Gent, academic year 2000-2001)
- Mentor of postgraduate theses of the advanced study: Master of Science in Marine and Lacustrine Sciences (University of Gent, academic year 2001-2002):
  - Eveline Hoste: The impact of primary production in the water column on benthic copepods
  - Annamaria Rekecki: Effects of sand extraction on the macrobenthos of the Belgian Continental Shelf: a comparison of long-term datasets

## Memberships

- World Association of Copepodologists (WAC: <http://www.copepoda.uconn.edu/>)
- International Association of Meiobenthologists (IAM: <http://www.meiofauna.org/>)
- Flanders Marine Institute (VLIZ: <http://www.vliz.be>)
- Royal Natural Scientific Society Dodonaea (Dodonaea: [inf4serv.UGent.be/~bdefre/](http://inf4serv.UGent.be/~bdefre/)) (student representative 1996-1998 of the Royal Natural Scientific Society Dodonaea)
- Natuurreservaten
- National Geographic Society
- Greenpeace

## Other skills

- Certified PADI Advanced Scuba Diver
- Class "B" driving license
- Certified in First Aid and CPR care in 1996
- Knowledge of languages:
  - Dutch: native language
  - English: reading/understanding – writing/speaking: very good
  - French: reading/understanding: very good – writing/speaking: good
  - German: reading/understanding: good – writing/speaking: superficial
  - Spanish: reading/understanding: good – writing/speaking: superficial

- Typing diploma of Dutch (Great distinction), English (Distinction), French (Distinction) and German (Distinction) in 1994
- Certificate of general music theory for the youth with courses transverse flute, general music education and part-song, obtained in 1994, part-time art education, municipal music academy Wetteren
- Certified youth animator