

CURRICULUM VITAE – Gerhard Hensler

Personal Data

Name: Gerhard Hensler
 Born: June 15, 1950, in Rudolstadt, Germany
 Nationality: German
 Family: married with Sigrid Brueckner,
 3 children: Daniel, 31/12/1979, Ana-Sophie, 20/2/1983,
 Svenja-Viola, 29/11/1984



SCIENTIFIC EDUCATION

April-June 1970 Industrial Practice at the Siemens Company in Berlin
 1970 – 1971 Study of Astronautics, Technical University Berlin, Germany
 Winter 1971 Study of Physics, TU Berlin, Germany
 1977 Diploma in Physics ("summa cum laude"), Institute of Astrophysics, TU Berlin
 Diploma thesis, "Application of the oblique rotator model to a spectrum variable star", supervisor: Prof. Dr. K. Hunger
 11/2/1982 Ph.D. in Astrophysics at University Observatory Goettingen, Germany
 Ph.D. thesis: " Numerical hydrodynamical calculations of accretion disks in close binary systems", supervisor: Prof. Dr. W. Deinzer
 1988 Habilitation for Astrophysics, University of Munich, Germany
 thesis: " Galactic evolution - steps towards a consistent treatment"

PROFESSIONAL COMMITMENTS

Professional Career

1978 – 1983 Research Fellow, University Observatory Goettingen, Germany
 1983 – 1989 Research Assistant, University Observatory Munich
 1989 – 1990 Assistant Professor, University Observatory Munich
 09/1990–09/2003 Full Professor and Director at the Institute of Theoretical Physics and Astrophysics of the Christian-Albrechts-University of Kiel (CAU); chair of the Albrecht Unsöld professorship
 10/2003–09/2015 Full Professor for Theoretical Astronomy at the Department of Astrophysics (former: Dept. of Astronomy), University of Vienna (UV)
 since 10/2015 retired; special contracts with the UV as Scientific Consultant and Lecturer

Faculty and University Commitments

1990–94, 2000–03 Administrative Director of the Institute of Theoretical Physics and Astrophysics (ITAP), CAU
 1994–1998 Vice-chair of the ITAP, CAU
 1990–1992 Member of the Faculty Commission on the Structure in Physics, CAU
 1991–2003 Board Member of the Physics Faculty, CAU
 1993–1995 Dean of the Physics Faculty, CAU
 1994–2000 Member of the Convent of the Math.-Nat. Faculty, CAU
 Member of the Consistorium of the CAU (election board of Rectors and Chan-

	cellors)
1996–2003	Senate commissions of the CAU (e.g. on Computing Facilities, for University Structure and Laws); Board member of the University Society Kiel; Confidant of the CAU for DFG affairs
1999–2003	Ombudsman for "Scientific Correctness" at the CAU
2004–09, 2012–14	Member of the Convent of the Faculty of Geosciences, Geography and Astronomy (FGGA), UV
2004–10	Commission of Study Affairs of the FGGA
01/2006–09/2009	Head of the Department of Astronomy (since 2013: Astrophysics), UV
2009–13	Substitute member of the Senate of the UV
10/2009–09/2011	Vice Dean of the FGGA
10/2011–09/2012	Dean of the FGGA

Memberships in Professional Societies

Astronomische Gesellschaft (AG; since 1978)

International Astronomical Union (IAU; since 1985)

German Physical Society (DPG; since 1993)

Austrian Society of Astronomy and Astrophysics (OeGAA; since 2004)

Teaching and Student advices

regular lectures of ~8 hrs/week: bachelor Introductory A&A courses; master courses "ISM & the Milky Way", "Extragal. Astronomy & Cosmology", "Dynamics of the ISM", "Galaxy Evolution", and topical seminars in extragalactic astrophysics

supervised and examined: Master/diploma students: ~40; PhD students: ~25

Habilitations of former group members, present position

A. Burkert (1997 in Munich): Professor at University of Munich

R. Spurzem (1997 in Kiel): Professor at University of Heidelberg and Head of research group "Computational Astrophysics" at NAO of the CAS, Beijing

W. Kley (1998 in Jena): Professor at University of Tuebingen

C. Theis (2000 in Kiel): Director of Planetarium Mannheim

P. Kroupa (2002 in Kiel): Professor at University of Bonn

Examinations

multiple PhD and Habilitation commissions (e.g. in Kiel, Potsdam, Heidelberg, Jena (all Germany), Vienna, Marseille and Strasbourg/France, La Laguna/Spain, Uppsala/Sweden)

Public Outreach

since 1980 frequent public talks at colleges of further education and public societies;

contributions to public and scientific broadcast and television: NDR, ZDF, ORF, OKTO, 3sat, etc., e.g. recently,

25.11.2010/18.8.2011, 21^h, 3Sat „scobel: Rätsel der Gravitation – Dunkle Materie“;

19.12.2013, 19^h, OKTO "Outside the Box – vom Universum zu Multiversen";

4.1.2015, 20:30, ORF 1 "PHS192 -Dunkle Materie, aber echt jetzt";

14.-18.12.2015, jeweils 9:50, ORF 1 Radio "Wolken im Weltall"

- 1992 – 2003 frequent talks at University Society Kiel (up to 10 per year)
- 1996 – 2003 Board member of the University Society Kiel
- 2002 – 2005 Member of the commission on “Astronomy and Astrophysics in University and School” at the Astronomische Gesellschaft
- since 2003 frequent talks at “University Meets Public”, “Pupil Summer University”, and on public events

Invited keynote speeches at Prize presentations

Professional Services

- 1990 – 1993 Deputy Chair of the Astronomische Gesellschaft
- Sept. 1993 Director of the DPG school on "Galaxy Evolution",
Program Committee of the DFG key project "Physics of Star Formation"
- March/Apr 1996 Guest Professor at Observatoire de Paris/Meudon in Meudon/France
- 2002 – 2005 Vice President of the Astronomische Gesellschaft
- 2005 – 2008 President of the Astronomische Gesellschaft
- June/July 2007 Guest Professor at Observatoire de Strasbourg/France
- 2006 – 2010 Spokesman of the “Computational Astrophysics” Project within the Univ. of Vienna Priority Program “Computational Sciences”
- 2007 – 2010 Chair of the Doctoral College “Cosmic Matter Circuit” at Univ. of Vienna
- 2007 – Member of the Astronomy Commission of the Austrian Academy of Sciences
- 2008 – 2012 Austrian Representative in the European ASTRONET consortium
- 2009, 2012 National Delegate of the Austrian Astronomy at the General Assemblies of the Intern. Astron. Union, Rio de Janeiro/BRA ('09), Beijing/CHN ('12)
- 2010 – 2016 Vice President of the Austrian Society of Astronomy and Astrophysics OeGAA
- Sep/Oct 2010 Visiting Professor at Tsukuba University Tokyo/JAP
- Aug/Sep'11, Aug'12, Aug'13 Guest researcher at NAOC of the Chinese Academy of Sciences, Beijing/CN
- May 2012 Visiting Professor at NAO of the Chinese Academy of Sciences, Shanghai/CN
- Oct 2012 Guest lecturer at the Graduates' day of the Univ. of Heidelberg/GER
- Oct 2012 – Chair of the NOC for the IAU GA 2018 in Vienna
- Nov 2014 Guest Lecturer at the NOA Rio de Janeiro/BRA
- April/May, Oct/Nov '15 Visiting Professor at NAOJ, Mitaka, Tokyo/JAP

Selected Expert Services

- 1991 - Referee for different Astronomical Journals: A&A, ApJ, MNRAS, AN
- 1991 - Referee for national research agencies: German A.v.Humboldt Foundation and Max-Planck Soc., Austrian FWF and OeAD, Czech GACR, Swiss SNF, British Royal Soc., US NSF and NASA, Australian AES, Dutch NWO, Belgique FWO, French ANR, Polish NCN, European ERC, PRACE, etc.
- 1992 – 2004 Referee elect in Astron. and Astrophys. of the German Science Foundation (DFG)
- 1996 – 2003 Referee of Astrophysical HPC projects at the HLR Stuttgart
- 1998 – 2004 Reviewing Committee of the DFG-SFB 439 in Heidelberg: "Galaxies in the Young Universe";
- 1998 – 2007 Reviewing Committee of the DFG-SFB 494 in Cologne/Bonn: “THz Astronomy”
- 1998 – 2001 Reviewing Committee of the DFG-SFB 191 in Bochum, Germany: "Physics of low-temperature Plasmas"

2001	Reviewing Committee of the DFG-SFB 591 in Bochum: "Universal Behaviour of Non-equilibrium Plasmas"
2002 – 04	Reviewing Committee of the DFG Emmy-Noether Programs
2002 – 14	Scientific Advisory Board of the Max-Planck Institute of Solar System Research (former MPIAe) in Katlenburg-Lindau, now Goettingen, Germany
2003 – 06	Reviewing Committee of the DFG-FG 388 in Chemnitz on "Laboratory Astrophysics"
2003 – 05	Scientific Advisory Board of the Astronomisches Recheninstitut (ARI) in Heidelberg
2004/05	Selection Committee of A.v.-Humboldt Foundation and MPG for the Max-Planck Research Award 2005
2006/07	ESO OPC panel B
2006 –	Advisory Board of the Intern. Max-Planck Research School at the Max-Planck Institute of Radioastronomy, Bonn
2007	Scientific Advisory Committee of the University of Cologne for Astrophysics
2008/09	XMM OTAC panel C
2009 – 15	Reviewing Committee of the DFG Priority Programme 1385 "The first 10 million years of the Planetary System"
2011 –	Advisory Committee of the German Council of Science and Humanities (Wissenschaftsrat) on "Wissenschaftsgeleitete Bewertung von Forschungsinfrastrukturvorhaben für eine Nationale Roadmap"
2013	Advisory Panel of the AIM of CEA-Saclay, France Review Panel of the Carl-Zeiss Foundation, Germany
2014 – 2016	Review Panel of the ANR "Work Programme", France
2015	Review Panel of PRACE
2016	Review Panel of the Polish NCN for the Polonez Programme TAC panel of the Hubble Space Telescope TAC panel of SOFIA
2016- 2017	OPC panel B of ESO cycles 99 and 100 (panel chair)
2017	Scientific Advisory Committee of the University of Cologne for Astrophysics

SCIENTIFIC CURRICULUM

Research Stays and major Visits abroad (last decade only)

Aug 2003	3 weeks at Swinburne Univ., Melbourne/Australia
July 2004	3 weeks at INAOE in Tonantzintla/Mexico,
Sept 2004	2 weeks at IAA Granada/Spain
July 2006	2 weeks at Observatoire de Strasbourg/France
Sep/Oct '10	1 month at Tsukuba University, Tokyo/Japan
Oct 2010	2 week visits at ANU, Canberra, and UWA, Perth, AUS
Aug/Sep '11	1 month at National Astron. Obs. of the Chinese Academy of Science (CAS) and at Kavli Institute of Astronomy and Astrophysics, Beijing/CHN
May 2012	2 weeks at the NAO of the CAS in Shanghai/CHN
June 2012	3 weeks at Aspen Center of Physics/USA
July 2013	3 week visits at Univ. of Sydney, UWA, Perth/AUS
Aug 2013	2 weeks at NAO of CAS, Beijing/CHN
Oct/Nov '14	3 week visits at NAO Rio de Janeiro/Brazil and other institutes
April/May, Oct/Nov '15	3 months Visiting Professor at NAOJ, Mitaka, Tokyo/JAP
May/June '17	1 month at NAOJ, Mitaka, Tokyo/JAP

Awards

- 1977 Best annual diploma degree of the Faculty of Physics at the TU Berlin
- 1991 Referee elect in Astronomy and Astrophysics of the German Science Foundation (DFG)
- 1990 and 2002 Vice President elect of the Astronomische Gesellschaft
- 2004 Member of the Selection Committee of A.v.-Humboldt Foundation and MPG for the Max-Planck Research Award 2005
- 2005 President elect of the Astronomische Gesellschaft
- since 2011 commission member of the German Council of Science and Humanities (Wissenschaftsrat) committee on "Forschungsinfrastrukturvorhaben für eine Nationale Roadmap"
- Commission to several advisory boards of Universities and Max-Planck institutes

Third-party funding

- DFG:** more than 20 projects approved since 1987 (last finished in 2013), 8 travel funds; **total volume: ~ 2 Mio. €**
- FWF:** 1 regular project (2009-13), 4 Lise-Meitner projects (2008-09, 2011-13, 2013-15, 2016-2018); **total volume: ~ 750 k€**
- University of Vienna:** Graduate school on "Cosmic Matter Circuit" (2007-10), **volume: 792 k€**
sub-project of the University priority program "Computational Sciences" (2007-10), **volume: 120 k€**
- BMBF** (German Ministry): 1 project (1991-96); **volume: 250 k€**
- DAAD:** cooperation projects with Spain (Acciones Integradas) and France (AMADÉE); **volume: ~ 10 k€**
- NATO:** cooperation project with J. Truran (Chicago) and J.S. Gallagher (Madison), 1988-92
- OeAD/WTZ:** cooperation projects: 2007-09 and 2012/13 with France (AMADÉE),
2010-13 with China (Silk Road project); **total volume: ~ 25 k€**
- OeAD/EPU:** 2015/16, 2016/17 with China (Silk Road project); **total volume: ~ 8 k€**

Research Interests

Evolution of the Structures and Phases in the Interstellar Medium

- Structure and Evolution of radiation and wind-driven HII Regions and supernova bubbles
- Star-formation self-regulation
- Heat Conduction at Gas-Phase Interfaces
- Structure and Survival of intergalactic High-velocity Clouds
- Formation of Globular Clusters
- Dissipative Evolution of Cloud Systems

Galaxy evolution

- Chemo-dynamical Evolution of Galaxies with different numerical architectures
- Morphological Galaxy transformation
- Starburst Galaxies
- Formation and Evolution of Dwarf Galaxies
- Formation of Tidal-tail Dwarf Galaxies
- Gas Infall into gaseous Galaxies
- Ram-pressure Stripping on Galaxies in Clusters

Publications

297 scientific articles (more than 120 in refereed journals), (Co-)Editor of 6 conference proceeding books

Conference Organisations (since 2008)

- 2008 SOC co-chair of the joint AG+SFAA spring meeting on “Galactic & Stellar Dynamics in the Era of High Resolution Surveys”, Strasbourg/F
SOC chair and LOC chair of the JENAM 2008 “New Challenges to European Astronomy”, Vienna/Austria
SOC of the Internat. Conf. “Star-forming Dwarf Galaxies: Ariadne's thread in the cosmic labyrinth”, Kolymbari/Greece
- 2009 SOC of the internat. conference “Galaxies in Isolation”, Granada/Spain
SOC of the internat. conference “Tidal-tail Dwarf Galaxies”, Bonn/Germany
SOC of the Annual Meeting of the Astronomische Gesellschaft on “Deciphering the Universe through Spectroscopy”, Potsdam/Germany
- 2010 SOC of the IAU Symp. 270 “Numerical Simulations of Star Formation”, Barcelona/Spain
SOC of the internat. CRAL conference “The Universe of Dwarf Galaxies”, Lyon/F
Organizer of the Workshop “Cosmic Matter Circuit”, Vienna/Austria
SOC of the Joint Europ. National Astronomical Meeting 2010, Symp. 3 “Dwarf Galaxies - Keys to Galaxy Formation and Evolution”, Lisbon/Portugal
SOC of the international Workshop on “Dwarf Elliptical Galaxies”, Heidelberg/Germany.
- 2011 SOC of the internat. conference “Galaxies in Isolation”, Granada/Spain
- 2013 Organizer and SOC chair of the conference “chemo-dynamical Galaxy Evolution” during the EWASS2013, Turku/Finland
- 2018 Initiator and Organization chair of the General Assembly of the IAU 2018 in Vienna/ Austria, August

Invited talks on international conferences

(5 most important since 2008) among multiple invited institute colloquia and seminar talks)

„Interaction of massive stars with their surroundings“, IAU Symp. 252 „Stellar Research in the 21st Century“ in Chania, China, April 7.-11., 2008

“3-phase modelling of disk ISM“, IAU Symp. 254 „Evolution of the Galactic Disk over the Hubble Time“, Copenhagen, Denmark, June 8.-13., 2008

“Modelling the chemical Evolution of Galaxies“, IAU Symp. 265, “Chemical Abundances in the Universe: Connecting First Stars to Planets“, Rio de Janeiro, Brasil, Aug. 11.-14., 2009

“Star-formation self-regulation by massive stars“, IAU Symp. 270, “Computational Star Formation“, Barcelona, E, May 31.-June 4., 2010

“Supernovae and Star-formation“, IAU Symp. 296, “Supernova environmental Impacts“, Raichak, India, Jan. 7.-11., 2013

“How star formation depends on galaxy structure, impacts galaxy evolution through feedback, and can be properly modeled in simulations“, IAU GA 2015, Div J Discourse, Honolulu, USA, Aug. 7, 2015

Talks on institute's colloquia (frequent invited talks)

since 2013: at NAO of the CAS, Shanghai/CHN; Univ. of Sydney/AUS; NCAR at Epping/AUS; ICRAR at UWA Perth/AUS; NAOC of the CAS at Beijing/CHN; Kavli Institute at Beijing Univ./CHN; Univ. of Sapporo/JAP; KITP at UCSB at Santa Barbara/USA; Univ. of Goettingen/GER; Observatorio Nacional de Brasil, Rio de Janeiro/BRA; Universidade de São Paulo/BRA; NAOJ Tokyo/JAP; Kavli IPMU, Tokyo/JAP

Current International Collaborations

- D. Bomans & R.-J. Dettmar (Bochum/Germany)
- A. Boselli & S. Boissier (Marseille/France)
- P.-A. Duc (Saclay/France)
- J.S. Gallagher (Madison/USA)
- F. Hammer (Meudon/France)
- J. Janz (Swinburne/Australia)
- H. Jerjen (Canberra/Australia)
- J. Kerp (Bonn/Germany)
- P. Kroupa (Bonn/Germany)
- W. Lin (Guangzhou/China)
- T. Lisker (Heidelberg/Germany)
- N. McClure-Griffith (Canberra/Australia)
- G. Meurer (Perth/Australia)
- P. Papaderos (Porto/Portugal)
- M. Pawlowski (USA)
- R. Pelletier (Groningen/Netherlands)
- J. Pflamm-Altenburg (Bonn/Germany)
- S. Recchi (Vienna)
- R. Smith & S. Yi (Seoul/S. Korea)
- R. Spurzem (Heidelberg/Germany and Beijing/China)
- E. Toloba (Santa Cruz/USA)
- T. Tsujimoto (Tokyo/Japan)
- W. Vieser (Munich/Germany)
- J. Vilchez (Granada/Spain)
- E. Vorobyov (Vienna)
- H.W. Yorke (Pasadena/USA)