

Contents

Staff	II
--------------	-----------

Preface	1
----------------	----------

Articles

Quantum-Well-Pumped Semiconductor Disk Lasers	3
VCSELs With Optically Controlled Current Confinement	13
Determination of the Thermal Resistance of VCSELs	21
New Approaches for Birefringence Tuning in VCSELs	29
Studies of (11 $\bar{2}2$) Oriented GaN Using Marker Layers	35
Semipolar GaInN Quantum Wells	45
Iron-doped GaN	53
Optical Biosensing of Ferritins	57
Investigation of AlBGaN Structures for UV-Lighting	65

Lists of Publications

Ph.D. Theses	71
Diploma and Master Theses	72
Bachelor Theses	74
Talks and Conference Contributions	75
Publications	78





- | | | |
|-------------------------|----------------------|-------------------------|
| 1: Oliver Rettig | 2: Peter Unger | 3: Rudolf Rösch |
| 4: Karl Joachim Ebeling | 5: Hildegard Mack | 6: Susanne Menzel |
| 7: Rainer Blood | 8: Jürgen Mähns | 9: Rainer Michalzik |
| 10: Dominik Heinz | 11: Ferdinand Scholz | 12: Marian Caliebe |
| 13: Markus Polanik | 14: Thomas Zwosta | 15: Markus Daubenschütz |
| 16: Tobias Pusch | 17: Sven Bader | |

Not on the photo:

Sükran Kilic, Gerlinde Meixner, Eva Nüßle, Ilona Schwaiger

Ulm University Institute of Optoelectronics

Albert-Einstein-Allee 45, 89081 Ulm, Germany
 URL: <http://www.uni-ulm.de/opto>
 Fax: +49-731/50-260 49
 Phone: +49-731/50-

Head of Institute

Prof. Dr.	Karl Joachim Ebeling	-2 60 51	karljoachim.ebeling@uni-ulm.de
-----------	----------------------	----------	--

Deputy Head

Prof. Dr.	Ferdinand Scholz	-2 60 52	ferdinand.scholz@uni-ulm.de
Prof. Dr.	Peter Unger	-2 60 54	peter.unger@uni-ulm.de

Group Leader

apl. Prof. Dr.-Ing.	Rainer Michalzik	-2 60 48	rainer.michalzik@uni-ulm.de
---------------------	------------------	----------	--

Cleanroom Management

Dr.-Ing.	Jürgen Mähnß	-2 60 53	juergen.maehnss@uni-ulm.de
----------	--------------	----------	--

Secretaries

Sükran Kilic	-2 60 59	suekran.kilic@uni-ulm.de
Hildegard Mack	-2 60 60	hildegard.mack@uni-ulm.de
Eva Nüßle	-2 60 50	eva.nuessle@uni-ulm.de

Research Staff

M. Sc.	Sven Bader	-2 60 37	sven.bader@uni-ulm.de
Dipl.-Ing.	Marian Caliebe	-2 60 39	marian.caliebe@uni-ulm.de
M. Sc.	Markus Daubenschütz	-2 60 38	markus.daubenschueze@uni-ulm.de
Dipl.-Ing.	Alexander Hein*	-2 60 46	alexander.hein@uni-ulm.de
Dipl.-Phys.	Dominik Heinz	-2 60 39	dominik.heinz@uni-ulm.de
Dipl.-Ing.	Martin Klein*	-2 60 44	martin.klein@uni-ulm.de
Dipl.-Phys.	Tobias Meisch*	-2 60 36	tobias.meisch@uni-ulm.de
M. Sc.	Markus Polanik	-2 60 46	markus.polanik@uni-ulm.de
M. Sc.	Tobias Pusch	-2 60 37	tobias.pusch@uni-ulm.de
M. Sc.	Oliver Rettig	-2 60 36	oliver.rettig@uni-ulm.de

Technical Staff

Rainer Blood	-2 60 44	rainer.blood@uni-ulm.de
Gerlinde Meixner	-2 60 41	gerlinde.meixner@uni-ulm.de
Susanne Menzel	-2 60 41	susanne.menzel@uni-ulm.de
Rudolf Rösch	-2 60 57	rudolf.roesch@uni-ulm.de
Ilona Schwaiger ⁺	-2 60 36	ilona.schwaiger@uni-ulm.de
Thomas Zwosta	-2 60 36	thomas.zwosta@uni-ulm.de

* Is an alumnus of the Institute meanwhile

⁺ Currently on parental leave