

Annex to Organization Chart of PTB

Internal Structure of the Department Presidential Staff Office

Department PSt Presidential Staff Dr. R. Wynands phone 1009	WG PSt 1 Research programs, strategic controlling Dr. R. Wynands phone 1009	WG PSt 2 Central Quality Management Dr. A. Odin phone 8330	SeSc PSt 4 Theory of metrologically relevant many-body systems Dr. W. Apel phone 8122	SeSc PSt 5 Theory of transport in quantum systems Dr. L. Schweitzer phone 8124	WG PSt 6 Theory of interacting quantum systems Dr. M. Weyrauch phone 8125
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Internal Structure of the Department Technical-scientific Infrastructure in Berlin

Department IB.T Technical-scientific Infrastructure in Berlin Dr. F. Melchert phone (Ch) 7446	WG IB.TD Technical Services, Berlin H. Stötzer phone (Ch) 7466	WG IB.TG Instrument Construction, Berlin A. Kuhn phone (Ch) 7556	WG IB.TI Data Networks and Servers, Berlin Dr. K. Oppitz phone (Ch) 7534	WG IB.TP PC Hardware and Operating Systems, Berlin M. Wagner phone (Ch) 7223
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Annex to Organization Chart of PTB

Internal Structure of the Departments of Division 1

Division 1
Mechanics and Acoustics

Dr. R. Schwartz
phone 1010

Department 1.1 Mass Dr. D. Ratschko phone 1100	WG 1.11 Realization of Mass	WG 1.12 Weighing Instruments	WG 1.13 Dynamic Weighing	WG 1.14 IT Weighing Technology
	Dr. M. Borys phone 1110	Dr. O. Mack phone 1143	K. Schulz phone 1144	M. Link phone 1146

Department 1.2 Solid Mechanics Dr. R. Kumme phone 1200	WG 1.21 Realization of Force	WG 1.22 Realization of Torque	WG 1.23 Periodic Forces
	Dr. R. Kumme phone 1200	Dr. D. Röske phone 1131	Dr. C. Schlegel phone 1230

Department 1.3 Kinematics Dr. F. M. Jäger phone 1300	WG 1.31 Realization of Acceleration	WG 1.32 Speed Measuring Instruments	WG 1.33 Dynamic Pressure Measurement	WG 1.34 Impact Dynamics
	Dr. T. Bruns phone 1220	Dr. F. M. Jäger phone 1300	E. Franke phone 1611	Dr. T. Bruns phone 1220

Department 1.4 Gas Flow Dr. H. Többen phone 1400	WG 1.41 Fluid Flow Measuring Techniques	WG 1.42 Gas Meters	WG 1.43 High Pressure Gas
	Dr. H. Müller phone 1310	Dr. R. Kramer phone 1330	Dr. B. Mickan phone 1331

Department 1.5 Liquid Flow Dr. G. Wendt phone 1500	WG 1.51 Liquid Meters	WG 1.52 Test Rigs for Liquids	WG 1.53 Traceability of Liquid Measurements
	Dr. M. Rinker phone 1380	Dr. G. Wendt phone 1500	Dr. R. Engel phone 1321

Department 1.6 Sound Dr. C. Koch phone 1600	SeSc 1.60 Ultrasound	WG 1.61 Audible Sound	WG 1.62 Ultrasound
	Dr. K. Beißner phone 1431	Dr. T. Fedtke phone 1511	Dr. V. Wilkens phone 1423

Department 1.7 Applied Acoustics Prof. Dr. W. Scholl phone 1700	WG 1.71 Building Acoustics	WG 1.72 Noise Measuring Technology	WG and SeSc 1.74 Thermal Conductivity Heat transport
	Dr. V. Wittstock phone 1549	Dr. I. Bork phone 1531	Dr. U. Hammerschmidt phone 3211

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Internal Structure of the Departments of Division 2

Division 2
Electricity

Dr. U. Siegner
phone 2010

Department 2.1 Direct Current and Low Frequency	WG 2.11 Direct Current Measuring Techniques	WG 2.12 Ratio and Sampling Techniques	WG 2.13 AC/DC Transfer, Impedance
	Dr. J. Melcher phone 2100	Dr. B. H. Schumacher phone 2122	Dr. G. Ramm phone 2190

Department 2.2 High Frequency & Electromagnetic Fields	WG 2.21 Electromagnetic Fields	WG 2.22 High-frequency Measuring Techniques	WG 2.23 On-Wafer Microwave Measuring Techniques	WG 2.24 Antenna Measuring Techniques
	Dr. T. Schrader phone 2200	Dr. T. Kleine-Ostmann phone 2210	Dr. R. Judaschke phone 2229	Dr. U. Arz phone 2297

Department 2.3 Electrical Energy Measuring Techniques	WG 2.31 Energy Measuring Techniques Research and Development	WG 2.32 High-voltage and Traction Energy Measuring Techniques	WG 2.33 Power and Energy, Test Centre System	WG 2.34 Conformity Assessment of Electrical Measuring Instruments	WG 2.35 Instrument Transformers
	Dr. M. Kahmann phone 2300	Dr. W. G. Kürten Ihlenfeld phone 2310	Dr. W. Lucas phone 2323	Dr. M. Kahmann phone 2300	E. Mohns phone 2350

Department 2.4 Quantum Electronics	WG 2.41 Logistics and Operation of Clean-room Facility	WG 2.42 Single-charge and Single-flow Quantum Circuits	WG 2.43 Circuits for Josephson Voltage Standards	WG 2.44 Nanostructures for Technical Applications	WG 2.45 Macroscopic Quantum Objects
	Dr. A. Zorin phone 2400	C. Cognolato phone 2207	Dr. A. Zorin phone 2400	Dr. J. Kohlmann phone 2133	Dr. T. Weimann phone 2281

Department 2.5 Semiconductor Physics and Magnetism	WG 2.51 Magnetic Metrology	WG 2.52 Nanomagnetism	WG 2.53 Low-dimensional Electron Systems	WG 2.54 Terahertz-Optics
	Dr. H. W. Schumacher phone 2500	Dr. M. Albrecht phone 2250	Dr. H. W. Schumacher phone 2500	Dr. M. Bieler phone 2540

Department 2.6 Quantum Electrical Metrology	WG 2.61 SET, Current and Charge	WG 2.62 Quantum Hall Effect, Resistance	WG 2.63 Josephson Effect, Voltage
	Dr. F. J. Ahlers phone 2600	Dr. H. Scherer phone 2139	Dr. J. Schurr phone 2114

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Internal Structure of the Departments of Division 3

Division 3
Chemical Physics and
Explosion Protection

Prof. Dr. K.-D. Sommer
phone 3010

Department 3.1 Metrology in Chemistry Dr. B. Güttler phone 3100	WG 3.11 Inorganic Analysis	WG 3.12 Bio-organic Analysis	WG 3.13 Electrochemistry
	Dr. D. Schiel phone 3110	Dr. A. Henrion phone 3120	P. Spitzer phone 3130

Department 3.2 Analytics and Thermodynamic State Behaviour of Gases Prof. Dr. V. Ebert phone 3200	WG 3.21 Humidity	WG 3.23 Thermal State Behaviour and Density
	Dr. N. Böse phone 3231	Dr. H. Bettin phone 3330

Department 3.3 Substance Properties and Pressure *Prof. Dr. K.-D. Sommer phone 3010	WG 3.31 Caloric Quantities	WG 3.32 Properties of Liquids	WG 3.33 Pressure
	Dr. S. Sarge phone 3310	Dr. H. Wolf phone 3320	Dr. W. Sabuga phone 3230

Department 3.4 Fundamentals of Explosion Protection Dr. H. Bothe phone 3400	WG 3.41 Safety Characteristics	WG 3.42 Gas Dispersion and Explosion Processes	WG 3.43 Explosion Protection Advice and Databases
	Dr. E. Brandes phone 3410	Dr. D.-H. Frobese phone 3420	Dr. W. Möller phone 3430

Department 3.5 Flame Transmission Processes Dr. U. Klausmeyer phone 3500	WG 3.51 Flameproof Enclosure	WG 3.52 Modelling of Flame Transmission	WG 3.53 Intern. Standardization a.Infor- ation Networks in Explosion Protection	WG 3.54 International Harmonization in Explosion Protection
	Dr. M. Thedens phone 3510	Dr. D. Markus phone 3520	Dr. U. Klausmeyer phone 3500	Dr. Hans-Günter Gillar phone 3540

Department 3.6 Intrinsic Safety and Safety of Systems Dr. U. Johannsmeyer phone 3600	WG 3.61 Intrinsic Safety	WG 3.62 Ignition Hazards of Modern Energy Supply	WG 3.63 Coordination Office „Conformity Assessment in Explosion Protection“
	Dr. U. Johannsmeyer phone 3600	Dr. U. Gerlach phone 3620	Dr. U. Johannsmeyer phone 3600

Department 3.7 Prevention on Ignition Sources Dr. M. Beyer phone 3700	WG 3.71 QM Systemassessments in Explosion Protection	WG 3.72 Explosion-protected Electrical Drive Systems	WG 3.73 Physical Ignition Processes
	M. Graube phone 3710	Dr. F. Lienesch phone 3720	Dr. M. Beyer phone 3700

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Internal Structure of the Departments of Division 4

Division 4
Optics
Dr. F. Riehle
phone 4010

Department 4.1 Photometry and Applied Radiometry Dr. K. Stock phone 4100	WG 4.11 Source-based Spectroradiometry Dr. P. Sperfeld phone 4144	WG 4.12 Photometry Dr. A. Sperling phone 4120	WG 4.14 Solar Cells Dr. S. Winter phone 4140	WG 4.15 Goniophotometry M. Lindemann phone 4125
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Department 4.2 Imaging and Wave Optics Dr. E. Buhr phone 4200	WG 4.21 Form and wavefront measuring technique Dr. M. Schulz phone 4210	WG 4.22 Quantitative Microscopy Dr. E. Buhr phone 4200	WG 4.23 Ultra-high resolution microscopy Dr. B. Bodermann phone 4222
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Department 4.3 Quantum Optics and Unit of Length Dr. P. Becker phone 4300	WG 4.31 Unit of Length Dr. H. Schnatz phone 4311	WG 4.32 Quantum Optics with Cold Atoms Dr. U. Sterr phone 4312	WG 4.33 X-ray Optics Dr. U. Kuetgens phone 4330	WG 4.34 Avogadro Constant Dr. P. Becker phone 4300
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Department 4.4 Time and Frequency Dr. E. Peik phone 4400	SeSc 4.40 Optical frequency standards Dr. C. Tamm phone 4415	WG 4.41 Time Standards Dr. S. Weyers phone 4416	WG 4.42 Transmission of Time Dr. A. Bauch phone 4420	WG 4.43 Optical Clocks with Single Ions Dr. E. Peik phone 4400
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Department 4.5 Optical Technologies Dr. S. Kück phone 4500	WG 4.51 Spectrometry and Microoptical Metrology Dr. A. Schirmacher phone 4510	WG 4.52 Reflectometry Dr. A. Höpe phone 4520	WG 4.53 Optical Femtosecond Metrology Dr. H. Telle phone 4530	WG 4.54 Laser Radiometry Dr. S. Kück phone 4502
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Internal Structure of the Departments of Division 5

SeSc 5.01
Mathematical Methods in
Precision Engineering
Dr. M. Krystek
phone 5016

Division 5
Precision Engineering
Dr. H. Bosse
phone 5010

<p>Department 5.1 Surface Metrology</p> <p>Dr. L. Koenders phone 5100</p>	<p>WG 5.11 Nano Force Metrology for Tactile Sensors</p> <p>Dr. U. Brand phone 5111</p>	<p>WG 5.12 Hardness and Layer Thickness Metrology</p> <p>Dr. K. Herrmann phone 5140</p>	<p>WG 5.13 Surface Metrology on Nano Structures</p> <p>Dr. L. Koenders phone 5100</p>	<p>WG 5.14 Roughness Measuring Techniques</p> <p>Dr. R. Krüger-Sehm phone 5121</p>	<p>WG 5.15 Calibration of Roughness Parameters</p> <p>L. Jung-Albrecht phone 5124</p>
<p>Department 5.2 Dimensional Nanometrology</p> <p>Dr. J. Flügge phone 5200</p>	<p>WG 5.21 Length Graduations</p> <p>Dr. J. Flügge phone 5261</p>	<p>WG 5.22 Mask Metrology</p> <p>Dr. G. Dai phone 5127</p>	<p>WG 5.23 Angle Metrology</p> <p>Dr. R. Geckeler phone 5220</p>	<p>WG 5.24 Modelling Scanning Microscopy</p> <p>Dr. C. G. Frase phone 5186</p>	<p>WG 5.25 Scanning Probe Metrology</p> <p>Dr. H.-U. Danzebrink phone 5136</p>
<p>Department 5.3 Coordinate Metrology</p> <p>Dr. F. Härtig phone 5300</p>	<p>WG 5.31 Geometrical Standards</p> <p>Dr. O. Jusko phone 5310</p>	<p>WG 5.32 Coordinate Measuring Machines</p> <p>Dr. K. Wendt phone 5323</p>	<p>WG 5.33 Gear and Thread</p> <p>Dr. K. Kniel phone 5388</p>	<p>WG 5.34 Multisensor Coordinate Metrology</p> <p>Dr. U. Neuschaefer-Rube phone 5311</p>	<p>WG 5.35 Metrological Services for Coordinate Metrology</p> <p>J. Hirsch phone 5325</p>
<p>Department 5.4 Interferometry on Material Measures</p> <p>Dr. R. Schödel phone 5400</p>	<p>WG 5.41 Interferometry on Spheres</p> <p>Dr. A. Nicolaus phone 5410</p>	<p>WG 5.42 Multi-wavelength Interferometry for Geodetic Lengths</p> <p>Dr. F. Pollinger phone 5420</p>	<p>WG 5.43 Interferometric Calibration of Gauge Blocks</p> <p>P. Franke phone 5430</p>	<p>WG 5.44 Interferometry on Prismatic Bodies</p> <p>Dr. R. Schödel phone 5440</p>	<p>WG 5.45 Certification of Length Measuring Machines</p> <p>I. Lohse phone 5450</p>
<p>Department 5.5 Scientific Instrumentation</p> <p>Prof. Dr. F. Löffler phone 5500</p>	<p>WG 5.51 Design</p> <p>H. Lüllmann phone 5510</p>	<p>WG 5.52 Fabrication of Measuring Instruments</p> <p>U. Nause phone 5316</p>	<p>WG 5.53 Manufacturing of Components</p> <p>J. Rother phone 5360</p>	<p>WG 5.54 Surface Technology</p> <p>Dr. D. Hagedorn phone 5540</p>	<p>WG 5.55 Training</p> <p>Prof. Dr. F. Löffler phone 5500</p>
	<p>WG 5.56 Manufacturing Technology</p> <p>R. Meeß phone 5560</p>				

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Internal Structure of the Departments of Division 6

Division 6
Ionizing Radiation
Dr. H. Janßen
phone 6010

Department 6.1 Radioactivity Dr. D. Arnold phone 6100	WG 6.11 Unit of Activity	WG 6.12 Environmental Radioactivity	WG 6.13 Radon Measuring Technique
	Dr. K. Kossert phone 6311	Dr. H. Wershofen phone 6120	Dr. A. Röttger phone 6130

Department 6.2 Dosimetry for Radiation Therapy and Diagnostic Radiology Dr. U. Ankerhold phone 6200	WG 6.21 High-energy Photon and Electron Radiation	WG 6.22 Brachytherapy	WG 6.23 Unit of Absorbed Dose to Water	WG 6.24 Alanine Dosimetry	WG 6.25 Air Kerma
	Dr. R.-P. Kapsch phone 6210	Dr. H.-J. Selbach phone 6220	Dr. A. Krauss phone 6230	Dr. M. Anton phone 6240	Dr. L. Büermann phone 6250

Department 6.3 Radiation Protection Dosimetry Dr. P. Ambrosi phone 6300	WG 6.31 Photon Dosimetry	WG 6.32 Radiation Protection	WG 6.34 Beta Dosimetry	WG 6.35 Measuring Stations for Radiation Protection
	Dr. O. Hupe phone 6310	Dr. S. Neumaier phone 6320	Dr. R. Behrens phone 6340	G. Buchholz phone 6350

Department 6.4 Ion Accelerators & Ref. Radiation Fields Dr. F. Wissmann phone 6400	WG 6.41 Micro-ion Beam and Ion Dosimetry	WG 6.42 Neutron Metrology	WG 6.43 Ion Accelerators	WG 6.44 Dosimetry of Complex Radiation Fields
	Dr. U. Giesen phone 7311	Dr. R. Nolte phone 6421	Dr. R. Böttger phone 6430	Dr. F. Wissmann phone 6400

Department 6.5 Neutron Radiation Dr. H. Schuhmacher phone 6500	WG 6.51 Detector Development	WG 6.52 Measurement Techniques in Neutron Dosimetry	WG 6.53 Neutron Spectrometry	WG 6.54 Radionuclide Sources
	Dr. V. Dangendorf phone 7525	Dr. M. Luszik-Bhadra phone 6520	Dr. H. Schuhmacher phone 6500	Dr. A. Zimbal phone 6540

Department 6.6 Fundamentals of Dosimetry Dr. H. Rabus phone 6600	WG 6.61 Cross Sections and Radiation Transport	WG 6.62 Nanodosimetry	WG 6.63 Biological Effectiveness of Ionising Radiation
	Dr. W. Y. Baek phone 6610	Dr. G. Hilgers phone 6620	Dr. H. Nettelbeck phone 6630

Referat 6.71 Operational Radiation Protection Dr. R. Simmer phone 6710

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Internal Structure of the Departments of Division 7

Division 7
Temperature and
Synchrotron Radiation
Dr. G. Ulm
phone (Ch) 7312

Department 7.1 X-ray Metrology with Synchrotron Radiation Prof. Dr. M. Richter phone (Ad) 5084	WG 7.11 X-ray Radiometry Dr. M. Krumrey phone (Ad) 5085	WG 7.12 X-ray Spectrometry Dr. B. Beckhoff phone (Ad) 5091	WG 7.13 Instrumentation Berlin-Adlershof R. G. Fliegau phone (Ad) 5093	WG 7.14 Information Technology Berlin-Adlershof J. Eden phone (Ad) 5086	
Department 7.2 Radiometry with Synchrotron Radiation *Dr. G. Ulm phone (Ch) 7312	WG 7.21 Synchrotron Radiation Sources Dr. R. Klein phone (Ad) 5083	WG 7.22 EUV Radiometry Dr. F. Scholze phone (Ad) 5094	WG 7.23 UV and VUV Radiometry Dr. A. Gottwald phone (Ad) 5096	WG 7.24 IR Spectrometry Dr. G. Ulm phone (Ch) 7312	
Department 7.3 Detector Radiometry and Radiation Thermometry Dr. J. Hollandt phone (Ch) 7369	WG 7.31 High-temperature scale Dr. J. Hartmann phone (Ch) 7451	WG 7.32 Infrared radiation thermometry Dr. J. Hollandt phone (Ch) 7369	WG 7.33 Detector Radiometry Dr. L. Werner phone (Ch) 7325	WG 7.34 Terahertz Radiometry Dr. A. Steiger phone (Ch) 7532	
Department 7.4 Temperature Dr. J. Fischer phone (Ch) 7473	WG 7.41 High-temperature Technology Dr. F. Edler phone (Ch) 7538	WG 7.42 Applied Thermometry Dr. S. Rudtsch phone (Ch) 7650	WG 7.43 Fundamentals of Thermometry Dr. B. Fellmuth phone (Ch) 7224	WG 7.44 Low-temperature Scale Dr. J. Engert phone (Ch) 7226	
Department 7.5 Cryo- and Vacuum Physics Dr. T. Schurig phone (Ch) 7290	SeSc 7.50 Superconducting Sensors Dr. D. Drung phone (Ch) 7342	WG 7.51 Cryogenic Sensors Dr. J. Beyer phone (Ch) 7379	WG 7.52 Ultra-low Temperatures Prof. Dr. P. Strehlow phone (Ch) 7429	WG 7.53 Cryoelectronic Measuring Dr. T. Schurig phone (Ch) 7290	WG 7.54 Vacuum Metrology Dr. K. Jousten phone (Ch) 7262
Department 7.6 Heat Dr. T. Lederer phone (Ch) 7230	WG 7.61 Thermal Energy Measurement Dr. J. Rose phone (Ch) 7250	WG 7.62 New methods for thermal energy measurement Dr. T. Lederer phone (Ch) 7230			

Explanations
Extensions:
(Ch) Berlin-Charlottenburg
030/3481...
(Ad) Berlin-Adlershof
030/6392...

March 1, 2010

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Internal Structure of the Departments of Division 8

Division 8
 Medical Physics and
 Metrological Information
 Technology
 Prof. Dr. H. Koch
 phone (Ch) 7343

Department 8.1 Medical Metrology Dr. B. Ittermann phone (Ch) 7318	WG 8.11 MR Technology	WG 8.12 Standards for Medical Instrumentation	WG 8.13 In vivo MRI
	Dr. F. Seifert phone (Ch) 7377	Dr. B. Ittermann phone (Ch) 7318	Dr. B. Ittermann phone (Ch) 7318

Department 8.2 Biosignals Dr. L. Trahms phone (Ch) 7213	WG 8.21 Biomagnetism	WG 8.22 Measurement Technology for Biosignals
	Dr. L. Trahms phone (Ch) 7213	Dr. M. Burghoff phone (Ch) 7238

Department 8.3 Biomedical Optics Prof. Dr. R. Macdonald phone (Ch) 7542	WG 8.31 Tissue Optics and Molecular Imaging	WG 8.32 Flow Cytometry and Microscopy
	Prof. Dr. R. Macdonald phone (Ch) 7542	Dr. J. Neukammer phone (Ch) 7241

Department 8.4 Mathematical Modelling and Data Analysis Dr. M. Bär phone (Ch) 7687	SeSc 8.40 Practical Measurement Uncertainty	WG 8.41 Mathematical Modelling and Simulation	WG 8.42 Data Analysis and Measurement Uncertainty
	Dr. S. Mieke phone (Ch) 7287	Dr. M. Bär phone (Ch) 7687	Dr. C. Elster phone (Ch) 7492

Department 8.5 Metrological Information Technology Prof. Dr. D. Richter phone (Ch) 7479	WG 8.51 Software and electronic elections	WG 8.52 Data Communication and Security	WG 8.53 IT in Legal Metrology	WG 8.54 Gaming Machines
	Dr. N. Greif phone (Ch) 7485	Dr. N. Zisky phone (Ch) 7624	Dr. U. Grottker phone 2020	R. Kuschfeldt phone (Ch) 7340

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Internal Structure of the Departments of Division Q

Division Q
 Scientific-technical Cross-sectional Tasks
 Dr. R. Weiß
 phone 8010

Section Q.11
 Academic Library

 Dr. J. Meier
 phone 8131

Department Q.2
 Theoretical Fundamentals

 *Dr. R. Weiß
 phone 8010

WG Q.01
 Translation Office

 U. Baier-Blott
 phone 9332

WG Q-Bau
 Management of Building Projects

 U. Deventer
 phone 9210

Department Q.3
 Legal Metrology and Technology Transfer

 Dr. P. Ulbig
 phone 8300

WG Q.31 Legal Metrology	WG Q.32 Certification Body	WG Q.33 Technology Transfer
Dr. W. Schulz phone 8300	Dr. H. Stolz phone 8320	Dr. B. Smandek phone 8303

Department Q.4
 Information Technology

 Dr. S. Hackel
 phone 8400

WG Q.41 Data Networks	WG Q.42 Server Systems	WG Q.43 Databases and Applications	WG Q.44 User support and consultancy IT-management
Dr. M. Gutbrod phone 8410	Dr. D. Sibold phone 8420	R. Ohl phone 8430	K. Hube phone 8440

Department Q.5
 Technical Cooperation

 D. Schwohnke
 phone 8200

WG Q.51 Europe, the Caucasus and Central Asia	WG Q.52 Africa and Asia	WG Q.53 Latin America and the Caribbean
D. Schwohnke phone 8200	Dr. M. Stoldt phone 8220	Dr. A. H. Valqui phone 8230

Section Q.61
 Technical Service

 M. Frühauf
 phone 9170

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Structure of Division Z

Section Z.11
Budget and Procurement

M. Wasmuß
phone 9110

Section Z.12
Personnel

S. Wiemann
phone 9120

Section Z.13
Legal Matters

M. Gahrens
phone 9130

Section Z.14
Organization and Controlling

Dr. J. Jaspers
phone 9140

Section Z.15
Berlin Administration

A. Lubinus
phone (Ch) 449

Section Z.16
Internal Services

M. List
phone 9160

Section Z.17
Training

P. J. Dickers
phone 9240

Division Z
Administrative Services

C. Tampier
phone 9010

WG Z.01
Web Services

M. Battikh
phone 3597