BAM

Status: 1 November 2011

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Internal Facilities
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Section Z.7
Buildings and Technical Services
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Division 1.1
Inorganic Chemical Analysis; Reference Materials
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Metal Analysis, Inorganic Reference Materials
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Inorganic Environmental Analysis
Dr. D. Lück 1112
Primary Calibration Substances, Elemental Trace Analysis
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Metallomics
Dr. J. Vogl 1144

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Organic Reference Materials, Proficiency Testing
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Organic Trace Analysis
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Analysis of Food and Commodities
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Structure Analysis, Polymer Analysis
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NMR Spectroscopy
Prof. Dr. Ch. Jäger 1131
X-ray Structure Analysis
Dr. F. Emmerling 1133
Analysis of Polymers – Polymer Standards
Dr. S. Weidner 1633
Porous Reference Materials
Dr. P. Klobes 5825
Synchrotron Beam Analysis
Dr. H. Riesemeier 1132

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Process Analytical Technology
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Process-Spectroscopy
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Gas Analysis
Dr. M. Maiwald 1140
Chemometrics; Metrology
Dr. M. Maiwald 1140
Inorganic Process Analytical Technology – X-ray Fluorescence Analysis
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Division 1.5
Bioanalytics
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Immunochemical Methods
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Fluorescence Spectroscopy
Dr. U. Resch-Genger 1134
Bioanalytical Sensor Materials
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Legislation in Chemical Safety Engineering
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Division 2.1
Gases, Gas Plants
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Explosion Protection and Risk Assessment
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Safety Related Properties of Gases
Dr. K. Hattapeels 3436
Safe Handling of Oxygen
Dr. Ch. Binder 1211
Type Examination of Gas Detectors and Principles of Use
Dr. V. Lohse 3446
Pressure Equipment – Accessories
Dr. St. Aris 1244

Division 2.2
Reactive Substances and Systems
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Assessment of Dangerous Goods/Substances
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Flammable Bulk Materials and Dusts, Solid Fuels
Dr. M. Schmidt 4443
Explosive Substances of Chemical Industries
Dr. H. Michael-Schulz 3275
Explosion Dynamics
Dr. H. Hieronymus 3426
Chemical Process Safety
Dr. A. Knorr 1224
Information Systems, CHEMSAFE
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Explosives
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Blasting Explosives, Propellants
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Pyrotechnics
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Standardisation of Explosives
Dr. Ch. Lohrer 3249
Plant Safety for Explosives
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Containment Systems for Dangerous Goods
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Dangerous Goods Packaging
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Testing and Investigation, Load Securing
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Approval and Use
B.-U. Wienecke 1312
Information Management – Technical and Public Safety
Dr. A. Schmidt 1313
Dangerous Goods Database – Datenbank GEFAHRGUT
Dr. M. Farahbakhsh 1314

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Tanks for Dangerous Goods and Accidental Mechanics
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Safety-related Evaluation of Tanks
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Tanks for Transport, Transport Technology
Dr. M. Pötzsch 1323
Pressure Equipment – Pressure Receptacles and Fuel Gas Storage Systems
Dr. G. Mair 1324

Division 3.3
Safety of Transport Containers
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Experimental Testing of Containers
Dr. K. Müller 1331
Transport Packagings for Radioactive Substances
Dr. F. Wille 1333
Special Form Radioactive Material; Special Issues of Transport Packages
Dr. S. Komann 4925

Division 3.4
Safety of Storage Containers
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Safety Evaluation of Interim Storage Containers
Dr. D. Wolff 1341
Safety Evaluation of Disposal Containers, Decommissioning, Dismantling
Dr. H. Völzke 1340
Numerical Container Analysis
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Materials and Environment
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Technical Aspects of Environmental Law
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Division 4.1
Biology in Materials Protection and Environmental Issues
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Materials Resistance against Microorganisms
Dr. I. Stephan 1412
Materials Protection against Fungi and Insects
Dr. R. Plarre 1411
Microbiology, Reference Organisms
Dr. H.-J. Kunte 1414
Analysis of Biocides
Dr. U. Schoknecht 1413

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Environmental Material and Product Properties
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Environmental Impact and Damage Mechanisms
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Emissions from Materials
Dr. O. Wilke 4130
Characterisation of Particles and Aerosols
Dr. S. Seeger 3802
Analysis of Cultural Assets
Dr. O. Hahn 3821
Imissions, Organic compounds in air
Dr. W. Horn 1426

Division 4.3
Waste Treatment and Remedial Engineering
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Management of Contaminated Sites and Environmental Engineering
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Plastics in Geotechnical and Geoenvironmental Engineering
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Composition and Microstructure of Engineering Materials
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Quantitative Materialography
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Phase Analysis
Dr. S. Dieter 3513
Electron Microscopy and Nanocharacterisation
Dr. W. Österle 1511
HT-Corrosion and Thermodynamics
Dr. A. Kranzmann 1510

Division 5.2
Mechanical Behaviour of Materials
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Metallic High Temperature Materials
Dr. B. Rehmer 1522
Composite Materials, Ceramics
Dr. B. Rehmer 1522
Material Behaviour at High Strain Rates
Dr. A. Hamann 1523
Modelling and Simulation of Mechanical Behaviour of Materials
Dr. B. Fedelich 3104

Division 5.3
Mechanical Behaviour of Polymers
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Micromechanics
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Fatigue Testing, Damage Analysis
Dr. V. Trappe 3386
Mechanics of Materials, Dangerous Goods Packaging, Acoustic Emission Testing
Dr. J. Bohse 1302
Failure Processes in Composites
Dr. Ch. Marotzke 1620

Division 5.4
Advanced Ceramics
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Biomaterials and Implants
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Functional Ceramics and Multilayer Technology
Dr. T. Rabe 1542
Glass Ceramics and Thermal Analysis
Dr. R. Müller a 5914

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Materials Protection and Surface Technologies
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Division 6.1
Corrosion and Corrosion Protection
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Corrosivity of Dangerous Media
Dr. R. Bäßler 3155
Corrosion in Structures
Dr. A. Burkert 1731
Analysis of Corrosion Caused Damages
Dr. J. W. Erning 1733
New Corrosion Protection Concepts
Prof. Dr. A. Heyn 4667

Division 6.2
Scanning Probe Microscopy, Tribology and Wear Protection
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Tribological Optimisation, Failure Analysis; Extreme Exposure
Dr. M. Woydt 1811
Fretting Wear
Dr. R. Wäsche 1541
Cryo-, Hydrogen- and Vacuum-Tribology
Dr. Th. Gradt 3531
Micro-/Nanotribology; Modelling
Dr. H. Klos 1814
Scanning Probe Microscopy and Nanotechnology
Prof. Dr. H. Sturm 1624

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Durability of Polymers
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Chemical Resistance
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Thermal Resistance
Dr. U. Braun 4317
Fire Retardancy
Dr. B. Schartel 1021
Weathering Resistance
Dr. V. Wachtendorf 1613
Elastomers and Reference Materials
Dr. W. Stark 1614

Division 6.4
Surface Technologies
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Thin Film Technology, Electrochemistry, Surface Measuring Techniques
Dr. U. Beck 1821
Pulse Laser Technology, Laser Safety
Dr. J. Krüger 1822
Surface and Thin Film Analysis
Dr. W. Unger 1823
Chemical Sensor Technology; Sol Gel Technology
Dr. Th. Hübert 1824
Nanotechnology
Dr. G. Reiners 1820

Division 6.5
Polymer Surfaces
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Integrity of Components with modified Interfaces and Surfaces
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Analysis of Nanostructured Polymer Systems
Prof. Dr. A. Schönhals 3384

DEPARTMENT 7
Safety of Structures
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Building Materials
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Cementitious Materials
Dr. H.-C. Kühne 1711
Damage Mechanisms and Protective Measures
Dr. U. Müller 1712
Saving Resources by Recycling
Dr. K. Rübner 1714
Building Diagnosis
Dr. F. Weise 1715
Bituminous Materials and Sealing Technology
Ch. Recknagel 1716

Division 7.2
Buildings and Structures
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Experimental Structural Safety
J. Herter 3271
Structural Reliability and Risk Assessment
Dr. M. Mehdianpour 1722
Structural Health Monitoring and Condition Analysis
R. G. Rohrmann 3293
Dynamics in Construction and Transportation
Dr. L. Auersch-Saworski 3290
Railway Track Systems and Components
Dr. M. Baeßler 1724

Division 7.3
Fire Engineering
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Fire Resistance of Structures
Dr. M. Korzen 3765
Large-scale Industrial Fires
Dr. Ch. Knaust 4190
Fire Scenarios and Chemical Analysis of Fire Products
Dr. A. Hofmann-Böllinghaus 4238
Fire Testing of Construction Materials and Construction Elements
Dr. S. Hothan 4218

DEPARTMENT 8
Non-Destructive Testing
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Division 8.1
Measurement and Testing Technology; Sensors
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Reliability of Testing Systems
Dr. A. Subaric-Leitis 3632
Fibre Optic Sensors
Dr. W. Habel 1916
Sensors and Measurement Systems
Dr. M. Bartholmai 1912
Optical Measurement Methods and Reference Materials
K.-P. Gründer 3633
Distributed and Polymer Optical Fibre Sensors
Dr. K. Krebber 1915

Division 8.2
Non-Destructive Damage Assessment and Environmental Measurement Methods
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Electromagnetic Methods for the Assessment of Structures; Development and Validation
Dr. H. Wiggenhauser 1440
Acoustic Methods for Testing Building Structures
Dr. M. Krause 1442
Methods of Geophysics, Geotechnique and Spectroscopy
Dr. E. Niederleithinger 1443
Combination and Automatisation of Non-destructive Testing of Buildings
Dr. A. Taffe 4244

Division 8.3
Radiological Methods
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Radiation Methods and Radiation Protection
B. Redmer 1831
Reliability of Non-Destructive Diagnostic Systems
Dr. Ch. Müller 1833
Digital Radiology and Image Analysis
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Modelling and Reconstruction in Radiology
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Acoustical and Electromagnetic Methods
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Eddy Current Testing Methods
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Ultrasound and Eddy Current Equipment/Devices
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Material Characterisation Using Ultrasound
Dr. J. Döring 3608
Physics of Ultrasonic Testing Techniques
Dr. G. Brekow 3648
Ultrasonic Testing – Special Techniques
Th. Heckel 3686
Thermographic Methods
Dr. Ch. Maierhofer 1441

Division 8.5
Micro NDE
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X-ray Topography
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Computed Tomography
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Components Safety
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Division 9.1
Service Loading Fatigue and Structural Integrity
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Fracture Mechanics and Structural Integrity
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Service Loading Fatigue
Dr. C.-P. Bork 1532
Failure Analysis
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Component Safety in Energy Technology
Prof. Dr. U. Zerbst 1531

Division 9.2
Testing Facilities and Testing Technology
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Scientific Workshop
L. Zimne 1932
Development/Construction
Th. Bernstein 1931

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Welding Technology
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Welding Simulation and Arc Welding
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Laser and Hybrid Welding
Dr. A. Gumenyuk 4623
Resistance Welding
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Division 9.4
Weld Mechanics
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Component Testing
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Accreditation, Quality in Testing
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Quality in Testing
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Accreditation and Conformity Assessment
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Representative for Severely Disabled Persons
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BAM's Board of Directors

BAM is subdivided into departments and the departments into divisions. The specialised work is organised within working groups. Opening, closing and evaluation of these groups are carried out with controlling techniques.

The main areas of expertise of the technical departments

1 Analytical Chemistry; Reference Materials
Provision and assessment of reliable methods and reference materials in analytical chemistry.

2 Chemical Safety Engineering
Guaranteeing and improving safety in the handling of explosive, flammable or otherwise dangerously reactive substances, systems of substances or articles as well as pressurised gases in the field of legislation on dangerous substances and goods, explosives and weapons, equipment safety and immission control.

3 Containment Systems for Dangerous Goods
Ensuring and improving the level of safety of containment systems for the transport and storage of hazardous goods, including safe transport and storage practices. BAM in its role as an element of the Federal administration is the competent authority in this field.

4 Materials and Environment
The assessment of the environmental compatibility of materials by a multidisciplinary team of engineers, chemists, geologists and biologists and the investigation of long-term interactions at the material/environment interface covering technical, ecological and economic aspects.

5 Materials Engineering
Safety and reliability of components under mechanical and thermal loading – an interdisciplinary approach – comprising materials sciences, design and manufacturing technology.

6 Materials Protection and Surface Technologies
Ensuring the functional safety of components and plants subjected to changes in thermal, chemical and environmental conditions often in combination with varying mechanical and physical stresses for damage prevention; development and validation of process and testing techniques accompanying production as well as reference materials.

7 Safety of Structures
The investigation and assessment of the safety, reliability and durability of building materials, structural components and structures with regard to mechanic, climatic, complex and fire impact.

8 Non-Destructive Testing
Ensuring a safe and intended condition of products, industrial plants and systems by Non-destructive Testing (NDT), monitoring and materials characterisation; development and combination of methods for an improved reliability of testing results.

9 Components Safety

S Accreditation, Quality in Testing
Quality management system and developing of technical and quality management rules for testing laboratories; accreditation, certification; national speaker for quality in testing.

BAM: Notified Body (Identification Number: 0589) according to EC Directives

- Explosives for civil uses (93/15/EEC)
- Equipment and protective systems intended for use in potentially explosive atmospheres (94/9/EC)
- Pressure equipment (97/23/EC)
- Transportable pressure equipment (1999/36/EC)
- Construction products (89/106/EEC)
- Placing on the market of pyrotechnic articles (2007/23/EC)

BAM
Federal Institute for Materials Research and Testing

Our Status

BAM is a scientific and technical senior Federal Institution under the authority of the Federal Ministry of Economics and Technology. It is the successor of „Staatliches Materialprüfungsamt“ (Public Materials Testing Office) founded in 1871 and of “Chemisch-Technische Reichsanstalt“ (Chemical Technical State Institute) set up in 1920.

Our Mission

We ensure ongoing safety in technology and chemistry through
– research and development
– testing, analysis, approval and certification
– consultation, information and advice

within our objective of promoting German industrial development.

Our Guideline

Safety in technology and chemistry

Our Responsibilities

- Statutory functions relating to technical safety in the public domain, especially as regards dangerous materials and substances
- Collaboration in developing statutory regulations, for example on safety standards and threshold values
- Advising the Federal Government and industry on safety aspects of materials and chemical technology
- The development and supply of reference materials and methods, in particular for chemical analysis and materials testing
- Assisting in the development of standards and technical regulations for the evaluation of substances, materials, structures and processes with reference to damage prediction and prevention, environmental protection and preservation of national economic values
- Enhancement of safety and reliability in chemical and materials technologies

Our Key Areas

- Analytical chemistry
- Safe handling of dangerous materials and dangerous goods
- Safe and environmentally compatible use of materials
- Safe operation of technical systems and processes
- Damage mechanisms and damage analysis

Our National and International Cooperation

Our tasks for technology, science, economy and society require interdisciplinary cooperation.
We collaborate closely with technological institutions in Germany and abroad, especially with national institutes. We give advice to Federal Ministries, economy associations, industrial enterprises and consumer organisations. Furthermore we provide expertise to administrative authorities and law-courts. In the area of measurement, standardisation, testing and quality assurance we are the competent national authority for testing techniques. Our members of staff are cooperating with numerous technical, legislative and standardisation bodies in order to develop technical rules and safety regulations and represents the Federal Republic of Germany both on the national and international level.

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BAM
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Points of Contact

Tasks | Objectives | Structure

Status: 1 November 2011