

# The Art of Civil Engineering made in Baden-Württemberg Germany

Conference  
Erbil, Kurdistan-Iraq  
10-11 November 2013



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# Welcome



Dear Conference Guests,

On our recent visit to the Kurdistan-Iraq region, representatives of your government suggested that the Baden-Württemberg Chamber of Engineers arrange a conference in Erbil in order to highlight the abilities of our engineers. During the trip by our Deputy Minister-President and Minister of Finance and Economics, Dr. Nils Schmid, in May of this year, many high-ranking representatives of your region expressed great interest in Baden-Württemberg's engineering excellence.

In the same way, the Kurdistan-Iraq region is highly interesting for us. For the region is preparing to improve its infrastructure. The challenging projects here required highly qualified solutions, which we are able to provide.

Baden-Württemberg is one of the most innovative regions in Germany and the whole of Europe. This is the case, in particular, for the work of our engineers, who stand for quality and sustainability.

At this conference we want to convince you that you can best develop your country with Baden-Württemberg quality. Because only sustainable solutions at the highest state of technology will take your country forwards.

Our conference is supported by the Baden-Württemberg Ministry of Finance and the Economics and by Baden-Württemberg International, whom I would again like to thank at this point. You can now look forward to exciting presentations on the subjects of large-scale construction projects, town, infrastructure and landscape planning, water management, waste disposal, energy supply, surveying, IT solutions, land registration, 3D visualisation, and fire safety. If you have any questions about the individual subjects or if you are interested in face-to-face conversations, do not hesitate to contact us. I hope you and we have a successful gathering.

Rainer Wulle

Dipl.-Ing. Rainer Wulle  
President  
Baden-Württemberg  
Chamber of Engineers

Daniel Sander

M.A.  
CEO  
Baden-Württemberg  
Chamber of Engineers

# Greetings



In May of this year, I and an economic delegation visited the federal region of Kurdistan-Iraq and gained a sustained impression of the positive economic developments that have been achieved in the last ten years. As the Minister of Finance and Economics of the state of Baden-Württemberg, with its strong export relationships, I was very pleased to get to know one of the most successful regions in the Near East. It is impressive, just how quickly the infrastructure in the Kurdistan-Iraq region has been developed in all areas.

I welcome the fact that a delegation of the Baden-Württemberg Chamber of Engineers is travelling to the Kurdistan-Iraq region. With the goal of finding possibilities for a collaboration with Kurdish partners and achieving an investment in the realisation of the massive infrastructure projects, leading innovative engineering firms from Baden-Württemberg are introducing themselves in Erbil. The offers and high levels of competence of these companies can contribute to the further development of the Kurdistan-Iraq region.

There is great interest in the state of Baden-Württemberg and among its companies in guiding the Kurdistan-Iraq region on its path. The state government, the economic and science organisations, and above all companies from Baden-Württemberg are interested in long-term partnerships, which create sustained prospects for the development of joint projects.

The new visit of a delegation from Baden-Württemberg underlines the presence of our state in the Kurdistan-Iraq region and contributes to the further intensification of the collaboration between the two states.

I wish you a successful event and would be happy to welcome you to our Bundesland in the near future.

Nils Schmid

Dr. Nils Schmid MdL  
Deputy Minister-President  
and Minister of Finance and Economics  
of Baden-Württemberg

Germany enjoys a reputation as one of the most successful exporting nations in the world. Within the Federal Republic of Germany, the federal Bundesland of Baden-Württemberg, with exports abroad approaching Euro 180 million (in 2012) is considered the engine of this success story.

No other region in Europe invests more in the research and development of innovative products. Globally renowned and successful companies, such as Bosch, Daimler, Porsche, Aesculap, Würth and SAP, together with our small, medium-sized and internationally active companies, the so-called »hidden champions«, form the backbone of our economy.

This success, and the enormous competitiveness of the Baden-Württemberg industrial and research landscape, is not a foregone conclusion however. The Baden-Württemberg state government knows the importance of developing new foreign markets as well, and therefore supports domestic companies and research institutes in acquiring business abroad.

In May of this year, the Deputy Minister-President and Minister for Finance and the Economics of Baden-Württemberg, and the members of the economic delegation that accompanied him, were able to form their own impressions of the enormous economic potential of the Federal Republic of Kurdistan.

Baden-Württemberg International, the state's competence centre for the internationalisation of the Baden-Württemberg economy and science, together with the Baden-Württemberg Chamber of Engineers, now invite you to come to Kurdistan again on business in order to intensify the contacts already made and to learn about new business opportunities. The aim of this trip is to initiate as many joint collaboration projects as possible for the shared benefit of Kurdistan and Baden-Württemberg.

Baden-Württemberg International is happy to provide assistance and support in all matters relating to Baden-Württemberg as an economic and science location and relating to starting collaborations between Kurdish and Baden-Württemberg companies, and we wish the event the best of success.

Jürgen Oswald

Jürgen Oswald  
CEO  
Baden-Württemberg  
International

# Baden-Württemberg – The German Southwest: Where ideas work.



Foto: Daimler AG

Baden-Württemberg is one of the most important economic centres in Europe, having become one of the leading investment locations on the continent. Bordering on France, Austria and Switzerland, Baden-Württemberg is situated right at the heart of Europe. Moreover, its outstanding infrastructure makes it an ideal gateway to the markets of the European Union - the world's economically strongest single market with around 500 million consumers.

In addition to internationally renowned global players such as Daimler, Bosch, SAP and Porsche, it is mainly small and medium-sized enterprises that form the backbone of our economy. In 2012, the gross domestic product generated by Baden-Württemberg companies amounted to 389 billion euros, higher than Belgium, Sweden or Austria. What's more, our federal state is the EU's top region for innovation. When it comes to its research expenditure, amounting to 5.1 per cent of GDP, Baden-Württemberg also occupies a leading position in Europe. The innovativeness of business and industry is supplemented by a dense network of universities, research institutions and transfer agencies. Many leading German institutions such as the Fraunhofer-Gesellschaft or the Max-Planck-Gesellschaft have substantially more facilities in Baden-Württemberg than in any other state in Germany.

The economic structure of our state is a mixed one. One important mainstay is the mobility sector. Apart from the automotive and aerospace industries, sustainable mobility concepts such as electromobility are playing an increasingly important role. Another key sector is mechanical engineering. Every third machine made in Germany originates from Baden-Württemberg. Successful companies such as Festo, Trumpf, Voith and many others were started and have flourished here. Large corporations such as SAP, IBM and Hewlett Packard represent the third main economic segment: information and communication technologies. For the health care sector, the fourth key industry, the conditions in our state are particularly auspicious. Globally important companies such as Aesculap, Paul Hartmann and Karl Storz are at home in Baden-Württemberg.



Foto: Festo



Foto: SAP



Foto: Voith-Pressbild



Environment technology and renewables are our drivers of future economic growth, whereby a quarter of all German environment-specific goods and services are accounted for by enterprises from Baden-Württemberg.

Over 3,700 foreign companies have already decided in favour of Baden-Württemberg. Anyone who invests in the state as a location for their company automatically profits from a growing pool of potential industrial customers, from the highly developed parts-supplier structure, from cooperation with companies that are related or in the same sector, but above all from the know-how and skills of our highly qualified workers. Our state is international, cosmopolitan and tolerant. People from 188 different countries contribute to our innovativeness and cultural charm.

For all questions relating to Baden-Württemberg as a location for science and industry, Baden-Württemberg International (bw-i) is your first point of contact. Go to [www.bw-invest.de](http://www.bw-invest.de) to find details of the opportunities for cooperation and investment that abound in Baden-Württemberg!

#### Map of Baden-Württemberg

Key:

- University town
- Automobile industry
- Machinery and plant engineering
- IT and telecommunications industry
- Chemical pharmaceutical and petrochemical industry
- Aerospace technology
- Agriculture
- Wine growing area
- Tourist region



#### One region. 1000 strengths.

- Area: 35,741 km<sup>2</sup> – approx. 10 % of Germany
- Inhabitants: 10.6 million – approx. 13 % of Germany
- Urban centres: Stuttgart, Mannheim, Karlsruhe, Freiburg, Heidelberg, Heilbronn, Ulm, Pforzheim, Reutlingen

#### The economy

- Gross domestic product (GDP): 389 billion euros – 14.6 % of German GDP
- GDP per inhabitant: 36,000 euros
- Exports: 176 billion euros
- Export volume / inhabitant: 16,300 euros
- Research and development spending (in 2011): 5.1 % of GDP (German average: 2.9 %)

#### Leading sectors

- Engineering: 30.5 % of total German mechanical engineering industry
- Automotive industry and: with almost one third of turnover generated by the whole sector and around 40 percent of the automotive workforce in Germany Baden-Württemberg is the German »car state«
- Medical technology / measuring and control systems / optics: Baden-Württemberg is market leader in the export of medical technology
- Health care
- Life sciences
- ICT industry
- Research & development: Baden-Württemberg is Europe's number one in innovation
- Aerospace industry: Baden-Württemberg is one of the most important locations for the European aerospace industry
- Environmental technology and renewables



# The Baden-Württemberg Chamber of Engineers



Baden-Württemberg Chamber of Engineers  
Cooperation under public law

The Baden-Württemberg Chamber of Engineers (INGBW) is the official representative body of engineers of all areas of specialisation in Baden-Württemberg. It was established in 1990 due to a law as a public body. The chamber of engineers is required by law to ensure the rules of professional conduct are upheld for their members and to protect the professional title of »consulting engineer« which is the equivalent of a quality seal.

Our main objectives are:

- Represent the interests of engineers on a political level as official contact partner
- Secure and promote the profession particularly the professional title »consulting engineer« for the protection of the public and the environment
- Provide advice and support for authorities and courts by means of surveys and reports
- Record members and their services in specialist lists to provide an overview of available services for investors, building clients, authorities and other potential clients
- Promote professional training and further training of engineers

The chamber's members cover various areas of work ranging from building construction and civil engineering to surveying and transport engineering and environmental protection. The majority of the members work in the building industry. The Baden-Württemberg Chamber of Engineers currently oversees 17 different specialist fields:

- Civil engineering
- Transport engineering
- Statical calculation/structural planning
- Sanitary environmental engineering
- Building services engineering
- Building physics
- Geotechnics/earthworks and foundation engineering
- Plant construction
- Construction management/building trade
- Bioengineering
- Chemical engineering
- Electrical engineering
- Energy management
- Town planning/landscape conservation
- Environmental technology
- Surveying
- Landscape ecology and planning

## Contact

**Baden-Württemberg Chamber of Engineers**  
Corporation under public law

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70180 Stuttgart  
Germany  
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[sander@ingbw.de](mailto:sander@ingbw.de)  
[www.ingbw.de](http://www.ingbw.de)

## Representatives



**Dipl.-Ing. Rainer Wulle**  
President  
Baden-Württemberg Chamber of Engineers

Position:  
Member of the Management Board of Wulle Lichti Walz, Consulting Engineers and Inspection Engineers for Structural Analysis  
Specialisms:  
Consultancy, structural planning  
Specialist areas:  
Civil engineering, refurbishment, buildings and structures, structural design/structural planning, structural analysis verifications, structural engineering, fire safety, design, roofs, structural analysis



**Daniel Sander M.A.**  
CEO  
Baden-Württemberg Chamber of Engineers

Education:  
University degree in politics and law  
Work experience:  
press relations officer for two politicians in Baden-Württemberg, head of a representative's office



**Karoline v. Graevenitz M.A.**  
Spokeswoman  
Baden-Württemberg Chamber of Engineers

Education:  
University degree in history and law  
Work experience:  
long time practice in journalism

# Baden-Württemberg International

Baden-Württemberg International (bw-i) is the centre of competence for the internationalisation, marketing and development of industry, science and research of the State of Baden-Württemberg, the German Southwest.

Our main objectives are:

- Strengthening contacts between foreign and local companies, universities and research institutions
- Supporting the endeavours of Baden-Württemberg companies, universities and research institutions to enter foreign markets
- Positioning Baden-Württemberg as an excellent location for business and science in order to encourage foreign capital investment, the settlement of new companies as well as the recruitment of specialist employees.

bw-i is your first point of contact if you are looking for an optimal site or investment object or if you would like to establish business relations with Baden-Württemberg, often referred to as Germany's premier high-tech location.

For more information visit [www.bw-i.de/en](http://www.bw-i.de/en)



## Contact

### Baden-Württemberg International

Agency for International  
Economic and Scientific  
Cooperation

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70174 Stuttgart  
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T +49 711 22787-0  
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info@bw-i.de  
[www.bw-i.de](http://www.bw-i.de)



## Representative

### Andreas Pfister

Regional Manager MENA Region  
and Turkey of Baden-Württemberg International

#### Education:

Master of Public Administration  
and Management (University  
of Konstanz and Universidad  
Complutense de Madrid)

#### Work experience:

- Baden-Württemberg-  
International – 2006
- Regional Manager Middle East  
and Northern Africa / Turkey  
at bw-i
- Responsible for the Medical  
Technology Sector (Marketing  
and Inward Investment)  
at bw-i
- Project Manager International  
Fairs at bw-i



BIT Consult was formed from six engineering companies from Baden-Württemberg and Bavaria. The goal of BIT Consult is to bid on and complete challenging projects in Germany and abroad which reflect the service spectrum of the founding companies.

BIT Consult has longtime experience in consulting, planning and implementation of projects in the areas of water, transportation and roadways and environment. It can choose the best suitable experts for its projects from its forming companies. In this matter, BIT Consult can guarantee high quality and efficiency. The IT-Systems of its various locations are compatible and the team is entrusted with one another.

The service spectrum includes the following main fields:

- Roadway and transportation planning
- Sanitary drainage and wastewater treatment
- Water supply and storm water discharge
- Hydraulic engineering and hydrology
- Operational health and safety planning and coordination
- Investigation of contaminated sites and remediation

Our services include studies and surveys, surveying, all design phases, tendering, construction supervision, operational consulting and training of staff

Number of employees: 150 permanent staff

Shareholders: 6 Engineering Consultancies

Membership Experience: More than 40 years

General Manager: Jörg Schwarzbach

## Contact

### BIT Consult GmbH

Friolzheimer Str. 3  
70499 Stuttgart  
Germany  
T +49 711 693308-36  
F +49 711 693308-99  
info@b-i-t-consult.de  
www.b-i-t-consult.de

## Representatives



**Dipl.-Ing. Andreas Nussbaum**  
Consultant in civil engineering,  
Safety and Health Coordinator  
Bit Consult GmbH  
Member of bw-engineers GmbH

Key qualifications:  
Water supply, wastewater  
treatment, stormwater manage-  
ment, floodwater protection,  
waste disposal, feasibility  
studies, renewal concepts,  
development planning, master  
planning, project management  
Experience abroad:  
Kurdistan, Italy (South Tirol),  
Austria, Switzerland, Namibia



**Dipl.-Ing. (FH) Helmut Mangold**  
Project Manager, Senior Survey  
Engineer  
Bit Consult GmbH  
Member of bw-engineers GmbH

Key qualifications:  
Many years of experience  
in the field of surveying with  
specialization in photogrammetry,  
planning and project manage-  
ment of infrastructure projects  
including redesign of sewerage  
and water supply schemes,  
skilled in planning and imple-  
mentation of practical surveying  
Experience abroad:  
Austria, Russia, Spain, Croatia,  
Tunisia, Morocco, Argentina,  
Honduras, Nicaragua  
and El Salvador



**Dipl.-Ing. Jörg Schwarzbach**  
Senior Infrastructure Engineer  
Bit Consult GmbH  
Member of bw-engineers

Key qualifications:  
Design of storm water, potable  
water, sewage and irrigation  
networks and utilities, site  
management, claim manage-  
ment, cost-performance  
analysis, coordination design  
of comprehensive urban  
infrastructure developments  
Experience abroad:  
Australia, United Arab Emirates,  
Saudi Arabia.



bw engineers represent a consortium of German engineering excellence, which integrates and coordinates the foreign market activities of leading consulting companies under a joint management.

## bw engineers mission

We breathe engineering and design. We stand for innovative interdisciplinary performance. A thorough quality management process allows us to transfer the German engineering standards to our projects abroad.

Interdisciplinary planning and our dedication to achieve the best quality for our customers will guarantee that »Engineering Made in Germany« can be provided to our clients worldwide. Our excellence is achieved through an open interdisciplinary exchange by continually questioning, communicating and interrelating, to come up with innovative answers.

bw engineers member companies employ more than 800 planners and engineers in the following areas:

- Project management
- Surveying and geo informatics
- Geotechnical engineering
- Regional and urban planning – transportation and traffic
- Water and environment
- HVAC / MEP
- Structural engineering
- Architectural design

We are perfectly capable of conducting complex projects such as general planning programs as well as highly specialized studies and simulations. Senior representatives of bw engineers have long-time experience in both consulting and teaching.

bw engineers has been set up in 2008 with the active support of the State Government of Baden-Württemberg and represents the largest, most capable consortium of consulting engineers in Germany. The 23 bw engineers member companies are chartered engineering companies of the Chamber of Consulting Engineers of the State of Baden-Württemberg.

## Contact

### bw-engineers GmbH

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[bw-engineers.com](http://bw-engineers.com)



## Representative

**Dr. Thomas Ertel**  
Managing Director of  
bw engineers, Stuttgart  
CEO of et environment and  
technology, Esslingen, Germany

### Education:

- M.Sc. Geology (Diplom-Geologe), University of Tübingen 1988
- Ph.D. (Dr. rer. nat.), University of Stuttgart, 1997

### Work Experience:

- Project engineer and project manager in Vedewa and UW 1988-2005, head of department for remediation of contaminated sites and landfills
- Running own consultancy company since 11/2005, acting as managing director of bw-engineers GmbH since 08/2012
- Projects in the field of environmental technology, brownfield regeneration, urban and regional development

## Contact

### Gruner AG

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4020 Basel  
Switzerland  
T +41 61 317 61 61  
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[mail@gruner.ch](mailto:mail@gruner.ch)  
[www.gruner.ch](http://www.gruner.ch)

Gruner AG is a leader in construction, environmental, building technology and energy planning. Apart from engineering services, its activities include general planning and consultancy tasks for structural engineering, infrastructure, security consultancy, building renovations, project management and controlling. The Gruner Group employs more than 1,000 experts. Depending on the task, competent, interdisciplinary teams are formed for implementing projects.

### Company details

Founded: 1862, AG since 1970

Consolidated sales: 2012 Group, CHF 115.4 million

Number of employees: 2013 Group, more than 1,000

Employee categories: 52 % engineers, architects and scientists

Headquarters: Basel

Branches: Köniz, Oberwil BL, Stein AG, Zürich

Group companies:

Berchtold + Eicher Bauingenieure AG, Zug, Böhringer AG, Oberwil, Gruneko Schweiz AG, Basel, Gruner GmbH, Wien (A), Gruner Ingenieure AG, Brugg, Gruner International Ltd, Basel, Gruner + Partner GmbH, Leipzig (D), Gruner Peru S.A.C., Lima (PE), Gruner + Wepf Ingenieure AG, St. Gallen, Gruner + Wepf Ingenieure AG, Zürich, Kiwi Systemingenieure und Berater AG, Dübendorf, Kiwi Investment & Consulting s.r.o., Prag (CZ), Lüem AG, Basel, Roschi + Partner AG, Köniz, Stucky SA, Renens, Stucky Atlântico, Porto (PT), Stucky Bal-kans d.o.o., Belgrad (RS), Stucky Caucasus Ltd, Tiflis (GE), Stucky Teknik Ltd, Ankara (TR)

Activities:

- Water, civil engineering/tunnel construction (since 1862)
- Construction (since 1938)
- Transport (since 1950)
- Energy plants, building technology (since 1974)
- Environment (since 1980)
- Security (since 1987)
- General planning (since 2000)
- Special areas

Certified: SN EN ISO 9001:2008 (1400444/A)

### Representative

#### Luca Dressino

Projektingenieur Brandschutz,  
Gruner AG



Education:

2008 – 2012 Safety and Security Engineering, Furtwangen University

Training:

Project management EU youth programmes and project manager in a development organisation in Cambodia

Membership:

VIB, FDS-UserGroup

Special experience:

Implementation of fire simulations and real smoke tests

# Fichtner Engineering & Consulting – Worldwide

**FICHTNER**



From its Home Office in Stuttgart with subsidiaries, affiliated companies, branch offices and project offices in every continent, our engineering consultancy enterprise tackles projects for new construction, rehabilitation and techno-economic optimization of plants and facilities for energy, water supply, sanitation and waste management in over one hundred countries.

Our highly qualified, over 1,800 members of staff provide engineering, consultancy and IT services for complex infrastructure projects, such as planning of power plants, energy transmission and distribution networks, drinking water supply and sanitation systems, and waste management facilities. All around the globe, we develop solutions for exploiting regenerative energies, devise energy-economic and waste management concepts, and provide consultancy services for climate protection with the goal of cutting greenhouse gas emissions. Our engineers, organizational consultants and economic advisors are active on behalf of public administrations; international development and commercial banks; clients in the central utility services and waste management sectors; and energy-intensive industries.

Moreover, based on its wealth of technical know-how, Fichtner provides management consultancy services to central utilities and waste management providers in addition to IT consultancy services. Thanks to this interfacing of management consultancy with engineering and technical consultancy, Fichtner is able to deliver single-source, custom-tailored solutions for successful realization of challenging projects.

## Contact

### Fichtner GmbH & Co. KG

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[www.fichtner.de](http://www.fichtner.de)

## Representative

**Dipl.-Ing. (FH) Florian Köpfer**  
Manager Business Development  
Middle East



Background:  
Project manager and team leader  
of project planning and control  
in the power plant new build and  
construction engineering sector  
Education:  
Degree in Civil Engineering,  
University of Applied Sciences  
Stuttgart

### Contact

**id architekten**  
Büro Stuttgart

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id architekten are partners to the public sector, project developers, investors and private clients. Use our competences from a broad spectrum of work in the planning and realisation of developments for the public sector, large-scale products, commercial and cultural buildings and for housing.

- Responsible use of your resources
- Transparent planning processes
- Efficient communication
- Solution-oriented action
- Realisation of the planning requirements in valuable and sustainably running properties

We work for you in the following areas:

- Cultural projects (schools, nurseries and sports facilities)
- Transport projects
- Urban planning assessments
- Industrial and commercial developments
- Housing
  - Apartments construction
  - Residential complexes
- Renovation and refurbishment

id architekten is a private company belonging to the brothers Mustafa and Saban Yazici and Michael Verheyen. id architekten was founded by Mustafa Yazici in 1999 and has been in its present form since 2002. Another office was opened in Stuttgart in 2004. The collective experience from the activities of the individual partners in leading positions for various offices forms the foundation of the joint work. Clients are offered the full range of services of an architect's office. The area of activity includes housing and commercial developments, cultural and transport projects and large-scale projects. Projects are realised at two locations by a powerful team, from the initial ideas to the handover to the user.



### Representative

**Dipl. Ing. Architekt Saban Yazici**  
Joint owner and commercial manager,  
Head of Property Monitoring,  
id architekten

Realisation of projects of various sizes, recently completed and handed over the BiL Private Schools in Stuttgart Sept. 2013, construction costs, 24 million Euro  
Education:  
Degree in Business Administration and Architecture  
born in Bayburt, Turkey,  
immigrated to Lorch, Baden-Württemberg



NovaTec is a consultancy company for strategic IT projects. Ministries and administrations are coached in the creation of master plans for IT, norms and standards for IT, and in the implementation of IT tenders, their steering and control. As a result of the constant collaboration with universities and research institutes, know-how transfer to the customer is guaranteed, as in the creation of innovation clusters. In consultation with the customer, NovaTec creates requirement analyses for IT and its gradual planning and implementation, as well as the secure operation, continuity management, etc. Examples of central software systems for regions and states include land registry, resident registration office, case management systems for police, customs, border security systems, airport-railway transport systems, etc.

Founded: 1993

Number of employees: 180

Activities in the following countries: worldwide (focus is Europe and Middle East)

Industry:

- Information technology
- IT strategy consulting
- IT master plans

Services:

- IT strategy consulting
- IT master plans for E-government
- Data Center Automation
- Security
- Cloud computing

Well-founded IT experience, above all in the following areas:

- E-government
- Authorities

Ideal business partners:

- E-government
- Ministries, police, customs, military
- Companies with complex and critical IT projects

## Contact

### NovaTec Consulting GmbH

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Phone: +49 711 220 40 700  
[www.novatec-gmbh.de](http://www.novatec-gmbh.de)

## Representative



**Dipl.-Ing. Albrecht Stäbler**  
CEO of NovaTec Consulting GmbH

Responsible for:  
Strategies, technology topics  
Consultant in strategic customer projects:  
Master plans, software systems, consulting, audits



str.ucture is an engineering company committed to the development of innovative lightweight solutions. We are experts on specialised methods of calculation and simulation. Our strength lies in turning complex analyses into solutions for challenging design tasks. str.ucture is a company of consulting engineers registered with the Baden-Württemberg Chamber of Engineers.

str.ucture stands for a design process where structures or components optimally fulfill their mission with minimal materials usage and minimal manufacturing effort. Perfectly shaped design is clear, simple, and logical. It is the aim to achieve more with less.

str.ucture realises the potential of lightweight design in integrating structural and functional demands. Of equal importance is the development of new materials and the application of latest simulation methods. str.ucture signifies a strictly solution-oriented planning process of interdisciplinary and iterative work.

Consulting, planning, and project management: str.ucture offers you solution-oriented service packages ensuring competent and efficient support in the implementation of your lightweight design project.

Make use of our know-how in all fields of classical lightweight design. Benefit from our proven expertise in the construction of membrane structures, in the design of highly efficient building structures as well as in the development and application of innovative materials for lightweight structures.

- Structural design
- Form finding
- Calculation and optimization of complex parametric architecture
- Wind engineering

## Contact

### str.ucture

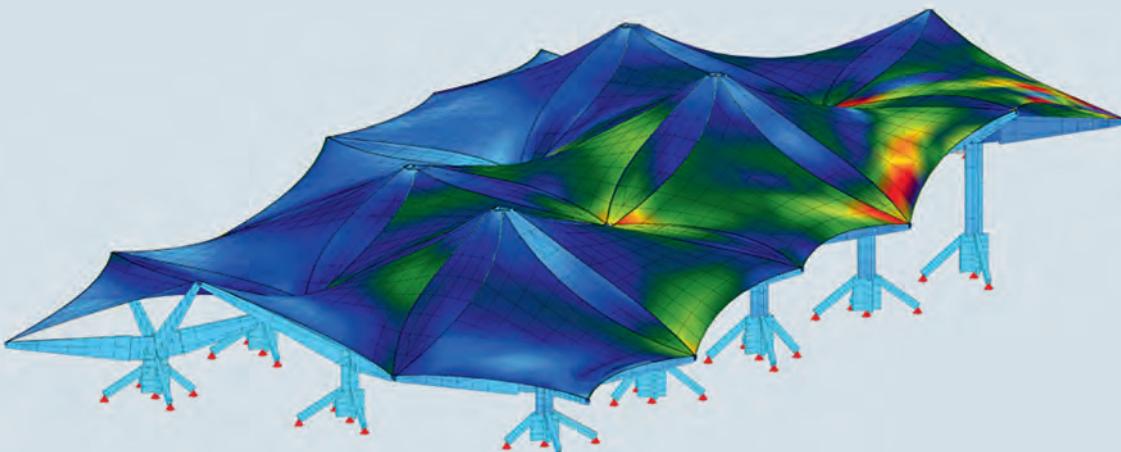
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## Representative



**Dipl.-Ing. Julian Lienhard**  
Managing Director of str.ucture  
GmbH

- Studies of structural engineering at the University of Stuttgart
- Structural designer with Rasch + Bradatsch Architects
- Freelancer with Knippers Helbig Engineers
- Scientific assistant and PhD at the Institute of Building Structures and Structural Design (ITKE), Stuttgart
- Lectureship at the University of Technology, Vienna
- Registered consulting engineer at the Chamber of Engineers of Baden-Württemberg





Year founded: 1969

Number of employees: 19

Sector: Structural engineering, civil engineering, construction engineering

Target markets: Near East

Unique selling points: Economic construction, fast and flexible

Projects in the following countries: Germany, Sweden, England,

Romania, Turkey, UAE, China, Philippines, Singapore, Taiwan, India

Areas of application: Administration buildings, schools and universities,

hospitals, residential complexes, industrial construction,

sanitary engineering, sewer systems, sewage treatment plants

rainwater collection basins, chemical containers, transport facilities,

bridges, long-span roofs, plant engineering, large industrial halls

Product range:

- Consultancy services for construction
- Structural engineering
- Infrastructure planning
- Acoustics
- Construction physics

Aims of the collaboration:

- Planning partnerships
- Project management partnerships
- Joint ventures

Requirements for an ideal business partner:

- Planning/project management companies
- International construction companies
- Public sector contracting authorities

## Contact

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## Representative

**Dipl.-Ing. Ramazan Balci**  
Chief Executive Officer CEO  
Civil Engineer and building  
physicist

Language:  
German, English, Turkish,  
Farsi, Russian

# Conference Programme

<b>Sunday, 10 November 2013 – European Training Center Erbil (ETTC)</b>		
09.00 a.m.	<b>Welcome coffee</b>	02.30 p.m. <b>Waste management and landfill technology</b> Dr. Thomas Ertel bw-engineers GmbH
09.30 a.m.	<b>Welcoming address</b> Dipl.-Ing. Rainer Wulle President of the Baden-Württemberg Chamber of Engineers	02.55 p.m. <b>»Achieving more with less« – membrane and special constructions</b> Dipl.-Ing. Julian Lienhard str.ucture GmbH
	<b>Opening remarks</b> Volker Wildner Head of German Liaison Office for Industry and Commerce	03.20 p.m. <b>Coffee break</b>
	<b>»Baden-Württemberg – Where Ideas Work – A perfect location in the heart of Europe«</b> Andreas Pfister Regional Manager MENA Region and Turkey of Baden-Württemberg International	03.35 p.m. <b>Individual and optimized fire protection management</b> Luca Dressino Gruner AG
	Expert presentations:	04.00 p.m. <b>IT-strategy, IT-master plan and E-services for government and organizations</b> Dipl.-Ing. Albrecht Stäbler NovaTec Consulting GmbH
10.00 a.m.	<b>Privatization in the Power Sector</b> Dipl.-Ing. (FH) Florian Köpfer Fichtner GmbH&Co. KG	06.30 p.m. <b>Closing reception</b> <b>»Engineering made in Germany«</b> Dipl.-Ing. Rainer Wulle, President of the Baden-Württemberg Chamber of Engineers, Alfred Simms-Protz, German Consul General in Erbil
10.35 a.m.	<b>Design of urban infrastructure</b> Dipl.-Ing. Andreas Nussbaum bit consult GmbH	
11.00 a.m.	<b>Land development and road design</b> Dipl.-Ing. (FH) Helmut Mangold bit consult GmbH	<b>Monday, 11 November 2013 – European Training Center Erbil (ETTC)</b>
11.25 a.m.	<b>Coffee break</b>	09.30 a.m. <b>B2B talks</b>
11.45 a.m.	<b>Structural engineering for infrastructure and buildings</b> Dipl.-Ing. Ramazan Balci Werner&Balci GmbH	12.30 p.m. <b>End</b>
12.10 p.m.	<b>Master planning in urban design</b> Dipl. Ing. Architekt Saban Yazici id architekten yazici.yazici.verheyen	
12.35 p.m.	<b>Water management – storm water planning, irrigation</b> Dipl.-Ing. Jörg Schwarzbach bit consult GmbH	
01.00 p.m.	<b>Lunch</b>	