GERMAN - RUSSIAN COOPERATION
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Plasma Technology and BalticNet-PlasmaTec

In addition to the fundamental importance as the so-called “fourth state of matter,” plasma offers a multitude of technological applications. Plasma technology embraces a large potential of current and promising fields of application so that it has become a key technology. This technology plays an important role in e.g.:

- the automotive industry (engines with plasma-based hard and low friction coatings),
- electronics (semiconductors etched by plasma),
- medicine (implants with plasma-produced functional coatings) and
- the development of new materials (micro- and nano-particles modified by plasma).

Germany is one of the market leaders of plasma technology alongside Japan and the United States.

The international network BalticNet-PlasmaTec is one of the most important European clusters in the field of plasma technology. BalticNet-PlasmaTec became an attractive platform for users and researchers during the last years. The network has reliable contacts with scientific and public facilities, as well as numerous relations to industrial partners particularly in all countries bordering the Baltic Sea, but also in Italy, Netherlands and India. BNPT aims to open up new business fields, foster company spin-offs, and intense common marketing and research and development activities.
Leading Ideas For Green Production

German companies hold a leadership position in the field of sustainable production technologies. Numerous research projects deal with the question of how resource and energy efficiency can be increased. This includes lightweight construction techniques as well as mobile energy sources and resource-conserving production processes. (Source: www.research-in-germany.de)

It has become important to develop sustainable technologies in the field of production, also in connection with climate change. The Federal Government supports the development of innovative approaches towards increasing resource and energy efficiency in production with the „Green Production Technologies“ campaign. (Source: www.research-in-germany.de)

Germany owes the title of „export champion“ primarily to the mainstream of its industry, the manufacturing industry. In mechanical engineering, German companies offer a wide range of jobs and opportunities. For example, about 6,000 companies with over 975,000 employees accounted for a turnover of over 205 billion euros in 2006. With a world market share of 19 percent, German mechanical engineers hold the top position. (Source: www.research-in-germany.de)

Federal Ministry of Education and Research Campaign „Green Production Technologies“

Germany is an innovation leader in resource-efficient production technology thanks to an excellent education and job training system, which is the basis of cutting-edge research and development and consequently of economic success. This is in part due to initiatives by the Federal Ministry of Education and Research (BMBF) such as „Promoting Innovation in Germany“, which supports the marketing activities of organisations that conduct research and foster education in the field of resource-efficient production technology. (Source: www.research-in-germany.de)

The initiative to “Promote Innovation and Research in Germany” focuses on the thematic fields of the German Federal Government’s Hightech Strategy. Following the “Nanotechnologies“ and “Environmental Technologies“ campaigns, a new campaign on the topic of „Green Production Technologies“ started in spring 2011. (Source: www.research-in-germany.de)

Thematic innovation networks and clusters as well as providers of education programmes were able to apply as participants of the campaign in the context of a competition run by the Federal Ministry of Education and Research (BMBF) on implementing marketing measures. Under the motto “Leading Ideas for Green Production“, the selected companies, research institutions and providers of education programmes are advertising resource-efficient production technologies from Germany in 2011 and 2012. Presentations at international trade fairs, road shows, partnering events and delegation tours are planned. (Source: www.research-in-germany.de)

BalticNet-PlasmaTec is one of the funded networks actively involved in the field of production technologies.
The Project - Plasma Technologies as a basis for environmental friendly productions

The aim of the Federal Ministry of Education and Research funded „Green Production Technologies“ project called „Plasma Technologies as a basis for environmental friendly productions“ is to build strong partnerships between German and Russian companies:

• with at least two follow-up projects,
• establishment of training arrangements
• and conferences, fairs and specific workshops.

German and Russian project partners will participate in conferences and fairs in Russia. The German partner will also visit Russian institutions to promote the project.

During the specific workshops, interested companies and institutes will get informed about the potential of plasma technology, the network and its partners and invited to additional events.

Medium to long-term, BNPT will build lasting cooperations with Russian scientific partners and integrate Russian partners into international programmes like COST, Interreg or FP7.

A continuous presence of the network in Russia should be realised with the help of this project.

Under certain conditions, Russian partners can directly join the network BalticNet-PlasmaTec.

The following pages will give you a brief but informative profile of the network BalticNet-PlasmaTec and its German and Russian partners who are involved in this funded project.

You can obtain information about products, contacts and opportunities for entering into new collaborations.
BalticNet-PlasmaTec

The international network BalticNet-PlasmaTec stands for a technology and market oriented cooperation of science, research and economy in the field of plasma technology. The network supports existing and initiates new cooperations between the academic world, public facilities, private companies and individuals. BalticNet-PlasmaTec aims to increase the perception of plasma technology in the society. The network takes over coordinating tasks and realises common, in particular cross-border activities.

Technology
• Preparation and coordination of projects and cooperations
• Search for and procurement of partners from Research and Development and industry

Marketing
• Technology marketing for new procedures and products
• Preparation of market and feasibility studies
• Event management and company representation at fairs

Some facts about BalticNet-PlasmaTec
• established since March 2006
• number of members: 50 (December 2011)
• members from 11 different countries
• Industry: 62%; R&D: 38%

Personnel/Organisation
• on-the-job training (learning by doing)
• Postgraduate education
• Placement for PhD students, staff exchange and traineeships
CemeCon AG
Coating Solutions for High-Performance Products

With round about 240 employees, 150 of them based in Würselen, Germany, CemeCon is one of the most successful companies globally specializing in state-of-the-art coating solutions for cutting tools and components. CemeCon is offering a comprehensive variety of services at highest level.

At the Würselen location, CemeCon operates one of the largest coating service centres in Europe and apart from that runs production sites and has licenced partners in the USA, China and the Czech Republic.

In one of the world’s largest job coating service centres, CemeCon is designing and producing your coating solutions. CemeCon provides the technology required for your in-house coating solutions, including systems technology, peripheral devices and a coating plant ready for production.

Hi-tech coating solutions for precision tools and components are the result of adapting substrate, geometry and coating material to the application and subsequent production process.

The use of PVD sputter technology and diamond coating technology in our production lines results in extremely hard, smooth and adhesive coating solutions. The result is increased performance of tools and components for almost every application. Furthermore, economic processing of modern materials is made possible.
Leibniz Institute for Plasma Science and Technology

The Leibniz Institute for Plasma Science and Technology (INP Greifswald) is the largest non-university institute in the area of low temperature plasmas in Europe, including their basic research and technical applications. On the one hand, INP aims to carry out application-oriented basic research while on the other hand it aims to optimize and further develop established plasma-assisted procedures and plasma products. INP is capable of adapting plasmas to specific customer needs including services and consultations, completed by preliminary and feasibility studies. INP launches research projects starting with the concept right through to building prototypes with market needs. Current top priorities are environmental and energy engineering, surfaces and materials as well as interdisciplinary topics in biology and medicine, specially-designed plasma sources, plasma modelling and diagnostics.

INP has not only 3,700 sqm main floor space, but also 41 laboratories, a classified clean room and a microbiological laboratory. In 2010 a new building with additional 540 sqm and 8 new laboratories was opened for interdisciplinary research. INP is organized as a non-profit organization employing 181 co-workers. Its total annual budget is approximately 13.9 million €. About 7.5 million € of total annual budget are competitively acquired third-party funds from the industry, German Research Foundation (DFG), Federal Ministry of Education and Research (BMBF) or European Union.

INP Greifswald is one of over 86 non-university institutes of the Leibniz Association. While working strategically and oriented towards the subject, the Leibniz Association carries out research of interregional relevance which is important for the whole society. All institutes of the Leibniz Association employ about 16,800 co-workers (7,800 scientists) and have a total budget of approximately 1.4 billion €. They are jointly financed by the federal government and the federal state.
neoplas control GmbH

Highest Precision - with Measurement and Control Systems for Gases and Plasmas

Environmental and safety requirements are becoming stricter. The demands on quality and efficiency of industrial production are rising not only for economical reasons in many industries.

Optical spectrometers help to optimize processes, where high degrees of reliability, security and readiness are required as well as excellent accuracy of measurement. neoplas control is a centre of competence for gas and plasma analysis based on laser spectroscopy in the mid-infrared range.

With the product series Q-MACS (Quantum Cascade Laser Measurement and Control System) it is possible to detect lowest absolute concentrations of molecules in gaseous media up to parts per trillion (ppt) in real-time. The Q-MACS technology was developed for various applications like the high sensitive analysis of plasma processes or trace gases.

neoplas control also offers components such as laser supplies and detectors, multi-pass optics, and equipment for calibration. The portfolio is completed with software solutions and services.

Product Features
- measurements with very high precision and time resolution up to nano second range
- simultaneous monitoring of different molecules through the use of multiple lasers
- lasers and detectors operate at room temperature without extensive cooling
- compact, modular, expandable and user-friendly
neoplas GmbH

From science – for science – into the market

neoplas puts its emphasis on utilization and valorization of research results for industrial applications with the objective of economic success. Our clients are public research institutions and high technology companies. This is our origin and our basis of authentic experience:

- Expedient technology development
- Efficient technology management
- Effective technology marketing

Technology development

Our researchers and engineers develop prototypes and small series that will help to convince your pilot customers or investors. CE-certiﬁcation, supply chain management, cost efficient construction and material selection are just a few essential aspects of early product development and pre-series production. Furthermore, we offer contract research like plasma process development (coating, decontamination etc.) or surface modification (activation, enzyme immobilization, functionalization etc.). Self-evidently, we design, develop and build individual complex plasma systems perfectly tailored according to your individual needs for low or atmospheric pressure.

Technology management

Our goal is to identify, qualify and utilize scientiﬁc knowledge and technologies to optimize the economic and scientiﬁc success of your research. We select from a broad range of possible technology transfer potentials to ﬁnd the best ﬁt for your individual purposes, covering the entire value chain from lab to end user. We involve the experts who are familiar with your target markets and suitable methods or processes as: pre-project coordination, public funding, contract research, patent and contract management, entrepreneurship & coaching - whatever is required, we will provide it. The services neoplas provides, will guide our clients through a smooth transfer process. Our experience will enable you to concentrate on your core interests, avoiding the many pitfalls one encounters during the process.
Plasmanitriertechnik Dr. Böhm

Hard and distortion resistant

A special treatment to harden materials with low temperatures

Plasmanitriertechnik Dr. Böhm is a German based SME, specialized on plasma heat treatment. Its machines energy efficient principle allows a surface treatment of steel based materials with nitrogen. Due to its low temperatures in the range of 350 up to 450 °C the procedure offers a high grade of hardness and dimensional accuracy.

The equipment for plasma nitriding and nitrocarburization is built in various dimensions, the diameters vary from 350 to 1500 mm and the heights from 500 to 1700 mm. With an additional post oxidation process it is possible to increase the corrosion resistance of the parts.

Based on the kind of steel it is possible to reach a surface hardness from 350 up to 1200 HV1. The depth of the layer can be up to 0,8 mm. Plasmanitriding and -nitrocarburizing can be used applied on parts like gears, valves, shafts, plungers, nozzles and a lot of tools. Parts of some grams up to 2 tons can be treated.
PlaTeG GmbH

Gear wheels of wind turbines, forging dies, tools and wear parts are subjected different conditions in daily use which make high demands on wear resistance, corrosion resistance and temperature stability of the components. Without a proper heat- and surface-treatment these components would not survive such complex loads for a longer time. The PlaTeG's PulsPlasma® treatment for such devices, as an energy- and resource effective surface heat treatment process for increasing the wear and corrosion resistance, is getting always more importance as an alternative to case hardening.

Based on more than 25 years of experience the PlaTeG GmbH produces equipment for PulsPlasma®-surface treatment of components made of steel, cast iron and sintered iron as market leader in this field. By means of the special PulsPlasma® technology surfaces of components can be hardened and refined in a way, that wear and corrosion is reduced and the component lifetime can be extended.

PlaTeG’s Low-pressure plasma plants with medium frequency- radio frequency- or microwave stimulation can be used to activate and clean plastic, metal and textile surfaces to improve the adhesion of paintings, printings or the connection by adhesion between surfaces.

PlaTeG - Be equipped for tomorrow’s Plasma Surface Technology!
- Plants for PulsPlasma®-Nitriding/Nitrocarburising,
PulsPlasma®-Oxidation for wear and corrosion protection,
- Plants for Plasma Activation of polymer and metal surfaces for surface degreasing and improvement of wettability, varnishability and bondability,
- Plants for Plasma Sterilisation of medical components.
Plazma Innovation GmbH

Plazma Innovation GmbH is a start-up company based at Greifswald. Its research field will be the use of optimized plasma torches for local energy generation from industrial waste. The founder of Plazma Innovation, Hughes is also the founder CEO of leading Indian company Plazma Technologies Pvt. Ltd. dedicatedly working in the field of Plasma cutting since last 2 decades with over 1000 Customer base and driven by consistent, focused R&D. Company vision is to market RoboPlazma™, robotic based 3D plasma cutting systems with indigenous developed technology with world wide international patents. RoboPlazma™ Cutting System made of standardized configurable robotic modules with unique propriety RoboSwift software and patented high performance Plasma torches. This technology is successfully proven on shop floors of over 30 customers in India, the Middle East, and USA. It senses, adapts and compensates for the inaccuracies associated with manual production inefficiencies. Unlike conventional robots, RoboPlazma™ generates new programs continuously, as required during production. It’s world’s first plate/beam cutting and coping system capable of processing all types of raw materials (plate, I-beam, pipe, tubing, channel, angle, and flat) required by steel fabricators. Its simple construction eliminates high capital, training, and servicing costs for maintaining multiple machines. Cutting of hot material up to 1200 degrees Celsius can be done due to its energy-intensive cooling. This system is the first of its kind worldwide and it is a one-machine solution designed to eliminate costly complexities and repeated material handling of traditional steel mills. RoboPlazma™ is a flexible, precision system that combines robotics, high speed plasma cutting and intelligent software. This system is not only revolutionary but also cost-effective in the following manner:

- Elimination of secondary cutting operation
- Hot plate is cut directly on main conveyor
- High speed cutting capability of special plasma arc

Its major uses are for Structural, Plate and Sheet Metal, Dish End, Pipe, Auger cutting besides standard plate cutting, beveling, coping, slotting, cutting holes.
Pfeiffer Vacuum GmbH

Pfeiffer Vacuum – a name that stands for innovative solutions, high technology, dependable products and first-class service. For 120 years, we have been setting standards in vacuum technology with these attributes. One very special milestone was the invention of the turbopump at our Company more than 50 years ago. Thanks to our know-how, we continue to be the technology and world market leader in this field.

Pfeiffer Vacuum is a provider of solutions for industrial applications and research projects requiring vacuum in the very low pressure range. In this connection, our vacuum solutions include all processes and steps that are needed to create perfect vacuum conditions, including advice, products, accessories, training and service. Our customers’ requirements are typically highly complex. They relate to both the concrete vacuum need in question as well as to the specifics of the system, the materials and products being used or processed, as well as the process conditions. And quality always plays a key role in this connection: Products from Pfeiffer Vacuum are constantly being optimized through close collaboration with customers from a wide variety of industries, through ongoing development work and through the enormous enthusiasm and commitment of our people. These are virtues that we will continue to embrace.

Our customers come from environmental technologies, chemistry, semiconductor production, coating technologies, automotive industry and many other segments. Established in 1899, Pfeiffer Vacuum including the adixen business unit acquired by the end of 2010 is today active with approximately 2,300 employees and over 20 subsidiaries worldwide.
Roth & Rau MicroSystems GmbH
Advanced Plasma and Ion Beam Technologies

Roth & Rau MicroSystems GmbH is a worldwide operating company that provides advanced technology solutions for the coating, structuring and processing of surface areas through the application of plasma and ion beam processes. The company’s process systems feature a modular composition that ensures an easy adaptation of different methods of surface modification, such as Reactive Ion Etching (RIE), Plasma Enhanced Chemical Vapor Deposition (PECVD), Ion Beam Etching (IBE) and Ion Beam Sputter Deposition (IBSD). The process systems are applied in the semiconductor industry, in the production of high precision optics and sensors as well as for research and development.

In-house developed plasma and ion beam sources in various configurations build the basis of all process systems that are developed by Roth & Rau MicroSystems. These are available in form of a conventional parallel-plate arrangement, as ICP sources and as microwave excited sources with adjustable geometrical configurations. The company has a vast amount of experience in the production of sources and constantly works on the technological development of these.

The product portfolio of Roth & Rau MicroSystems includes process systems for application on single wafers as well as on flat samples. The modular design enables their optimization for the individual requirements of each process (RIE, PECVD, IBE). Furthermore the range of services of the company reaches from consulting, design, construction, assembly to software development as well as installation and an after sale service.
Schaeffler AG

Together we move the world

Schaeffler AG develops and manufactures precision products for everything that moves – in machines, equipment, and vehicles as well as in aviation and aerospace applications – with its INA, LuK, and FAG brands.

Schaeffler is a leading manufacturer of bearings worldwide, as well as a renowned supplier to the automotive industry. The globally active group of companies generated sales of approximately 9.5 billion euros in 2010.

Schaeffler has over 70,000 employees and is present at 180 locations in over 50 countries. In Russia, the headquarters in Moscow, and offices in St. Petersburg, Novosibirsk, Togliatti, Yekaterinburg, Krasnodar, and Kazan ensure that the company has fast and direct contact with its customers.

Over 5,500 employees at 40 R&D locations worldwide develop new products, technologies, processes, and methods for solutions that are tailored to the market. Schaeffler is among the innovation leaders in industry with around 1,600 patent registrations annually, and currently over 16,000 effective patents.

Schaeffler is a recognized development partner to the automotive industry, with systems expertise for the entire drive train – this includes the engine, transmission, and chassis. The Industrial Division supplies rolling bearing and plain bearing solutions, and linear and direct drive technology under the INA and FAG brands for around 60 different industrial sectors via its worldwide organization with market proximity and application support service.
TTZH was founded in Germany in 2004 with a goal of providing consulting and engineering services in industry, running export/import activities in Europe, Asia and North America and supporting emerging business in the high tech tribology, materials science, nanotechnology and surface engineering.

TTZH delivers PVD equipment for deposition of coatings, bearings, seals, tools, tribomaterials, incl. ceramics, cemented carbides, targets and cathodes, greases, metalworking fluids, equipment and instrumentation for tribotesting of coatings and lubricants, measuring mechanical surface parameters, incl. 2D / 3D / 4D roughness, nanohardness, AFM, 3D X-Ray computed tomography, ICP spectrometers, etc.

TTZH recommendations and choices are staying for the world best quality and reliability of the high tech products.

TTZH main languages for communications are Russian, English and German.
The "ELECTRODYNAMIC SYSTEMS & TECHNOLOGIES", LLC ("EST"), LLC is the resident of the Special Economic Zone for high technology development in Tomsk city (Russia), has affiliated companies in Moscow (Russia) and Barcelona (Spain), distributors in many countries of Europe and South East Asia.

The discovered and patented new type of electric discharge in dense gases, named Discharge with Runaway Electrons (DRE), is the heart of the company activity. Such discharge, obtained in particular in atmospheric air (ADRE), has great qualitative differences from all electric discharges in dense gases known at present and can be applied to cleaning, activation, modification, etching, express sterilization of real 3D-objects surfaces on a conveyor or in a chamber, both conversion of various substances in gas and liquid phases, and other technologies in a wide range of industries-medical, pharmaceutical, automobile, textile, electronic, chemical, food processing, furniture, etc.

The "EST", LLC has developed the first ever industrial samples of new type of ADRE-plasma generators. Now the Company is the unique manufacturer of industrial ADRE-processors for horizontal and vertical conveyors of "ARTEMIS" and "HERMES" lines, working in completely automatic mode with control by a remote computer and allowing to process real 3D-objects having a thickness or height of a profile to 5-10 cm from various materials - metals, plastics, semiconductors, ceramics, composites, including woven, nonwoven, film, nano-porous, and other forms.
MELP

The core activity of MELP is related to ozone generation and application and addressing the following areas:

- Medicine (sterilization and disinfection, ozone therapy).
- Environmental protection (water and air purification).
- Agriculture and food industry (decontamination of equipment, packages, and raw foodstuffs).

Other aspects of MELP activity are related to development and implementation of bipolar air ion flow sources used for electrostatic neutralization and indoor air quality control.

The main MELP products:

- Gas Ozone Sterilizer of medical products S0-01.
- Ozone Therapy Device AOT-01.
- Ozone generators OGVA 1-400 g/hr for water-purification and preparation plants.
- Plasma filter DBG –PF-02 for air purification and disinfection.

MELP projects:

- Development of the technique and apparatuses for plasma and AOP sterilization and disinfection in medicine.
- Development of apparatus and techniques of using ozone sanitizers in food and pharmaceutical industries, in transportation, and in eliminating epidemiologic consequences of emergency situations.
- Development of ozone-chemiluminescence-based monitors of ecological conditions of natural and industrial structures.
- Development of apparatus for air purification from organic and microbiological pollutants by plasma-adsorption technology.
Scientific Research Institute of Precise Mechanical Engineering (NIITM)

The R&D Institute of Precise Engineering (NIITM) was founded in 1962 as a leading enterprise for development of specialized technical equipment for microelectronics. In 1993, NIITM transformed into a joint-stock company.

JSC NIITM is a member of Siltronics Microelectronic Solutions, which is the largest hi-tech company in Eastern Europe focused on the market of telecommunications, information technology, micro- and nanoelectronics.

NIITM specializes on development, manufacturing and delivers of the following types of the process equipment meeting modern requirements in the field of technical characteristics, ergonomics and design:

- vacuum equipment for technological processes of thin layers coating, plasma etchings, plasma-enhanced chemical vapor deposition – PE CVD;
- equipment for diffusion, oxidation, epitaxy and annealing processes, including the fast thermal annealing;
- hardware components.

JSC NIITM has also developed small-sized vacuum and physisco-thermal installations. The advantages of developed installations are small dimensions, possibility of fast re-adjustment at change of technological process, small power consumption, no need of using compressed air.

JSC NIITM also carries out upgrade, recovery and maintenance of earlier developed equipment, its re-equipment by modern functional systems. The priority line of NIITM activities – creation of the equipment for implementation of technological processes in micro-, nano-, radio electronics, micromechanics, and for synthesis of nanomaterials.
St. Petersburg State Polytechnical University
Department of Electrical Engineering and Electrotechnics

St. Petersburg State Polytechnical University was founded in 1899. Recently SPbSPU became “National Research University”, also known in Russia and abroad as Polytechnical Institute — a recognized Russian and world-wide leader in the field of higher engineering education. The University is carrying out education in the following areas: engineering, physics, economics, humanities and information technologies. The University is proud of its longstanding traditions of international cooperation. Among the University partners there are more than 280 universities, 131 scientific and research institutions and 172 companies from over 41 countries.

Department of Electrical Engineering and Electrotechnics of SPbSPU is carrying out an education for leading companies in Russia in the following areas:

• Bachelor degree on program “Electrical and electrical power engineering”;
• Degrees of Engineer on programs “Electro technological installations and systems” and “Electrical equipment of enterprises, organizations and establishments”;
• Master degree on directions “Plasma, laser, and particle-beam processes and installations with power supply and control systems”, “Electrical equipment systems for enterprises, organizations and establishments”.

Scientific interests:

• Plasma applications on the basis of arc plasma torches for spraying of coatings (in particular decorative coatings onto sculptures)
• Plasma applications on the basis of ICP torches for powder treatment
• Mathematical modeling of plasma processes
• Power supplies for industrial installations
Texplazma works in two ways:

- Create & covering new coatings for new details.
- Repair wearing members (machinery part) with thermal spraying coating in different industries.

The second one is more popular in Russia. We also have great experience in reconstruction of details. We use different material and powder according to different client request. Together with that the company works out the technology of reconstruction according to the customer’s request including the matters of applying the covering and the matters of its processing to get the needed indexes. Once it is necessary we cooperate with different scientific organizations & institutions doing research in plasma spraying area.

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Break new ground

Plasma could be your solution.
So please join us in pursuit of reaching new horizons.
BalticNet-PlasmaTec

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