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GERMAN
CANCER RESEARCH CENTER
IN THE HELMHOLTZ ASSOCIATION

Medical Physics & Computer Science **CAREER DAY**

November 26th, 2013

DKFZ, Communication Center
08:30 am – 05:00 pm

Welcome

to the Medical Physics and Computer Science Career Day at the German Cancer Research Center.

You are currently looking for job opportunities outside academia or just wondering what kind of possibilities you have as a (medical) physicist or computer scientist in the non-academic world?

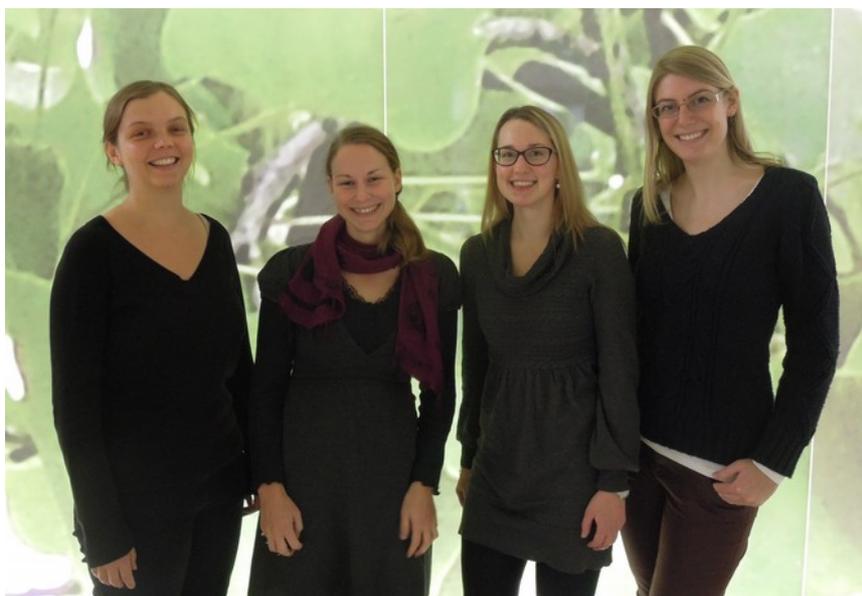
Today you will have the possibility to speak directly to physicists and computer scientists who are working in the clinic, research & development, management, marketing, education, consulting, and diverse other fields.

Follow the speakers personal career paths and gain insight in the various companies they are working in. Ask all the questions you would like to ask during an informal lunch with the speakers.

We hope that you will enjoy the day!

Your organising team

Nora Hünemohr, Julia-Maria Osinga, Tanja Gaa and Merle Reinhart



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Dr. Stefan Scheib

Varian Medical Systems Imaging Laboratory
Baden-Daettwil, Switzerland

Job

Scientific Advisor (Senior Scientist)

Sector

Healthcare

Scientific Background

Nuclear Physics and Radiation Therapy
PhD obtained in February 1994



After graduating in physics at the Technischen Hochschule Karlsruhe, now Karlsruhe Institute of Technology (KIT), with a master in nuclear and particle physics (1989), I started my doctoral thesis project in medical radiation physics (proton therapy) at the Paul Scherrer Institute (PSI) in Villigen, Switzerland.

In 1994 I received my PhD from the Federal Institute of Technology Zurich (ETHZ) based on this work and moved on to a clinical job in conventional radiation therapy. At a clinic in Zurich (Hirslanden Group) I did establish the medical physics department and worked there for 13 years in the field of clinical radiosurgery and brachytherapy as responsible medical physicist.

During this time I finished the post graduate studies in medical physics at the ETHZ and received the professional certificate in medical physics from the Swiss Society of Radiation Biology and Medical Physics (SSRMP).

In 2007 I switched my role from a clinical user to a manufacturer (Varian Medical Systems) to supervise applied research activities in the field of Image Guided Radiation Therapy (IGRT), where I work today in the same position (senior scientist).

What do you do in your current role?

- Consult, guide and perform applied research activities in image guided radiation therapy
- Review and decide on customer initiated applied research within the VMS research partnership program
- First point of contact for external partners (universities, companies, students) and iLab engineering representative within VMS
- Work in close collaboration with VMS engineering (internal/external) on dedicated subjects according my expertise
- Supervise students at different levels working at VMS iLab
- Attend scientific meetings important to fulfill the current role
- Maintain local knowledge network with clinical partners

What do you enjoy most about the job?

Working in an international and interdisciplinary team (software, hardware engineers, physicists, marketing and sales department) and acting as link between research customers and development engineers to impact future clinical features of our products.

What are the challenges you face in your job?

- To stay focused and not to work too much regarding the many opportunities where I could impact product development from my point of view
- Working in a highly regulated and worldwide organized company brings some overhead to my daily work

What attracted you to this position?

The possibility to broaden my experience in image guided radiation therapy and the change from clinical work as medical physicist (user) to product development as a manufacturer with a focus on applied research.

What skills have been useful in getting and doing the job?

- Practical experience as clinical medical physicist over more than 10 years
- Practical experience in different clinical radiation therapy modalities (proton therapy, brachytherapy, radiosurgery)
- Practical experience in educational activities (student supervision, lecturing at several grades)
- Practical experience in applied research projects
- Practical experience in performing scientific reviews for peer reviewed scientific journals
- Open minded personality
- Ability to work in a changing environment

What is your one tip for scientists who consider a move to this sector?

Focus on the clinical needs where your work could make a difference and understand the clinical field your work is linked to.

You can contact me via:

- E-mail: [REDACTED]
- LinkedIn

Session 1 – 9:45 am

Dr. Frank Hensley

University Hospital Heidelberg
Heidelberg

Job

Clinical Medical Physicist

Sector

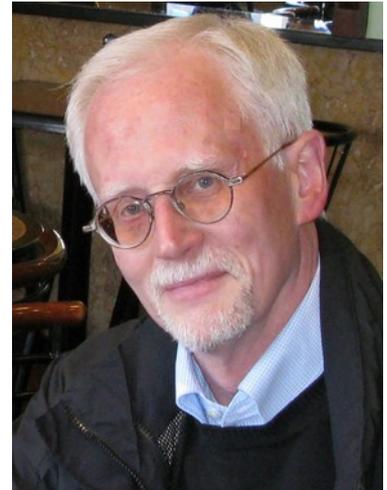
Department of Radiation Oncology

Scientific Background

Physics, nuclear physics

PhD obtained in December 1979

Postdoc experience: 11 years



Dr. Frank Hensley did his PhD in 1979 in nuclear physics at the Nuclear Research Center in Karlsruhe and the University of Heidelberg. For the next five years he worked as postdoc at the Institute for medical physics and radiation biology at the University Hospital Essen where he did neutron dosimetry and radiation therapy with fast neutrons.

From 1984-1990 he gained professional experience in several hospitals in radiation therapy and nuclear medicine and since then settled down at the University Hospital, Heidelberg in the Department of Radiation Oncology.

What do you do in your current role?

Apart from being involved in almost the complete field of radiation therapy, my main focus is on Brachytherapy = radiation therapy with sealed radioactive sources and on Intraoperative radiation therapy = radiation therapy during surgery. I also have some specialties in special techniques such as Total Skin Electron Therapy and Total Body Radiation Therapy.

What do you enjoy most about the job?

Working in an interdisciplinary team of physicists and physicians, being in contact with patients, and teaching and discussing with students.

What are the challenges you face in your job?

A major challenge in clinical medical physics is the ability to make fast decisions for patient therapy, sometimes with limited means and in a situation in which one cannot provide a perfect solution. To do so, one needs a sound knowledge of the underlying physical principles and the presently available techniques. From this experience one should develop a list of problems which must be solved, and work on better solutions for the coming patients. One must be aware of the limits of the available methods and constantly keep track of the new developments in (medical) physics and technology as well as medicine itself and must work on the development of methods for the safe implementation and quality control of all the new stuff.

What attracted you to this position?

Working in a large university hospital and applying the newest scientific findings and technologies.

What skills have been useful in getting and doing the job?

Interest in the medical applications and a good physics background.

What is your one tip for scientists who consider a move to this sector?

Remain scientifically eager and stay informed on the complete field of physics (not only medical physics) as well as the developments in the medical field you are working in.

You can contact me via:

- E-mail: 

Stefan Ueltzhöffer

Precisis AG
Heidelberg

Job

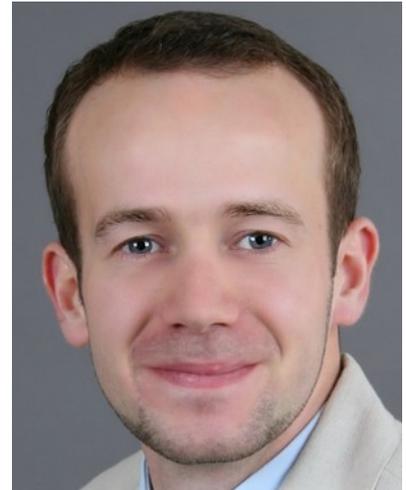
Project Manager
Head of Innovation Management

Sector

Medical Technology

Scientific Background

M.Sc. Medical Physics
3-4 years of professional experience



After conducting his studies in Wiesbaden for a B.Sc. in Medical Technology and a M.Sc. in Mannheim for Medical Physics, Stefan left the academic track to start a career in the medical device industry. At Precisis AG - a SME for medical devices in neurosurgery and radiotherapy located in Heidelberg, he was able to apply the background in medical physics and engineering in various product development project, such as the certification specialized treatment planning systems or the development of completely new multi-leaf collimators for radiotherapy in emerging countries together with the DKFZ.

Besides the project management, Stefan now runs the evaluation and strategic alliances with other companies in the field and hopes to thereby be even more capable of connecting scientific and engineering developments with actual product developments, which are successfully placed in the healthcare market.

What do you do in your current role?

I run product development from idea/license agreements all through the development phases to production, marketing and sales + Business development for new business opportunities in the field.

What do you enjoy most about the job?

The width of activities and the impact of my work. Whether it's the layout of a new webpage or exhibition booth or visiting clinicians in far away countries to present them a new technology or discussing the feasibility and implementation of new ideas into actual products for patients' benefit.

What are the challenges you face in your job?

The width of activities also has its downside when it is hard to prioritize due to lack of time. A direction, both in a project and in the career is not as clear and pre-defined as it may be in larger companies or less innovative fields.

What attracted you to this position?

Again, the width of activities but also the location and size of the company were major factors to apply and stay with the company.

What skills have been useful in getting and doing the job?

Besides my actual qualification, which definitely made me be interesting for them in the first place, following skills were and are beneficial: English language, flexibility, personal engagement over the work-to-rule requirements, ideas and creativity

What is your one tip for scientists who consider a move to this sector?

If there is the "one tip" then that to make one's knowledge and scientific skills of use in a competitive company's environment, you should be ready to apply your knowledge in a wider spectrum and invest yourself wherever it is useful for the company - not only where the department holds the name of your scientific background. It will benefit yourself in the end.

You can contact me via:

- E-mail: [REDACTED]

Session 1 - 10:15 am

Dr. Harald Treuer

University Hospital Cologne
Cologne

Job

Chief Physicist

Sector

Department of Stereotaxy and Functional Neurosurgery

Scientific Background

Physicist

PhD obtained in February 1996



Dr. Harald Treuer studied Physics at the University of Heidelberg and was trained in Medical Physics at the German Cancer Research Center. In 1988 he moved to the University Hospital of Cologne to set up a Medical Physics Service at the Department of Stereotaxy and Functional Neurosurgery.

Focus is on stereotactic radiosurgery and image guided surgical procedures as brachytherapy, radiocolloid therapy and deep brain stimulation. Harald Treuer is author/coauthor of 59 peer reviewed papers and habilitated in 2008 on 'Precision and Accuracy of Stereotactic Treatments'.

What do you do in your current role?

- Clinical and administrative work (surgical and radiation treatment planning, system and network management, quality assurance, radiation protection, dosimetry, image guided surgery and radiosurgery).
- Scientific work and teaching.
- Leading a group of medical physicists.

What do you enjoy most about the job?

- The broadness of tasks and methods and medical procedures.
- The combination of clinical and scientific work.
- Interdisciplinarity.

What are the challenges you face in your job?

- Not to make (severe) errors.
- To identify potentials for (scientific) improvements and realize them.
- To bear responsibility (for patients and team).

What attracted you to this position?

The chance to set up a modern department of stereotaxy together with an international recognized neurosurgeon.

What skills have been useful in getting and doing the job?

General physics, computer programming, dosimetry (measurements, computer modeling), imaging physics.

What is your one tip for scientists who consider a move to this sector?

Be prepared to tackle all kind of (physical) problems in a medical environment rather than in a physics lab.

You can contact me via:

- E-mail: 

Session 1 - 10:30 am

Dr. Karl-Heinz Grosser

St. Claraspital AG
Basel, Switzerland

Job

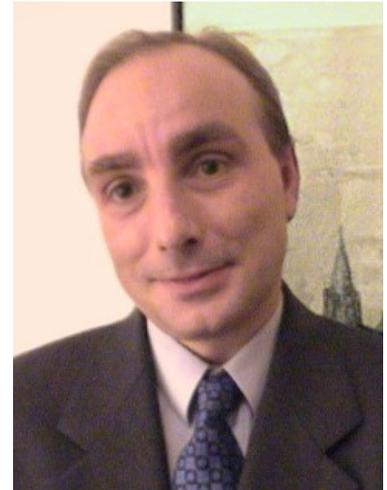
Chief Medical Physicist

Sector

Radiooncology Department

Scientific Background

Physicist: Medical Physics, Radiotherapy
PhD obtained in 1994
Postdoc experience: 20 years



Dr. Karl-Heinz Grosser did a vocational training as an electrician before he studied Physics at the University of Heidelberg where he did his master thesis at the Institute of Environmental Physics about gas exchange and water waves.

He finished his PhD in 1994 in the field of Radiological Diagnostics and Therapy. The following 18 years, he worked as a Medical Physicist as well as PostDoc as clinically at Vienna (Austria), Heidelberg and Darmstadt. Since 2008 he is Chief Medical Physicist at St. Claraspital in Basel.

What do you do in your current role?

I work in a radiotherapy department of a mid-sized Swiss hospital as the chief medical physicist. Together with our physicians and RTTs we ensure that our patients will get an optimal radiotherapy treatment.

What do you enjoy most about the job?

To work in an interdisciplinary team with physicians, RTTs and technicians. This job covers a wide range of activities, which include quality assurance of the linear accelerator and its accessories (i.e. dose checks, geometry checks, safety checks, ..), planning of individual radiation treatments, radiation protection, as well as problem solving in different areas (CT, lasers, ...).

What are the challenges you face in your job?

There are safety-relevant processes which can influence the health of patients. The medical physicist is responsible for the application of the prescribed physical dose.

What attracted you to this position?

I was sure to have a crisis-proof job. Furthermore, it is a job which makes 'sense' for me.

What skills have been useful in getting and doing the job?

As a responsible physicist in a hospital you should not avoid conflicts and sometimes you should be stress resistant. Probably most important is the need to be precise, but however you have to keep in mind the error dimensions and consider them in relation to uncertainties which occur during an individual radiation treatment, for example reproducibility of patient set-up.

What is your one tip for scientists who consider a move to this sector?

Check, whether a 'clinical environment' is proper for you. You should not have 'hospital phobia'. You should be aware: in most cases you will primarily not work as a scientist. Nevertheless a PhD in medical physics is helpful. In certain countries an additional certificate as a medical physicist is mandatory.

You can contact me via:

- E-mail: 

Dr. Christian Lappe

ZEISS BG Vision Care
Aalen / Oberkochen

Job

Manager Professional Relations /
Scientific Affairs & Technical Marketing

Scientific Background

Physics, Biomedical Optics, Medical Physics
PhD obtained in December 1999



After finishing his PhD in Physics in the Dept. of Medical Physics at the German Cancer Research Center in Heidelberg, Christian entered industry in 1999 as Application Consultant at MRC Systems GmbH in the field of Radiooncology / Radiation Therapy.

Further steps in his career led him to Product Management at Diehl BGT Defence and Rohwedder Visotech, then managing Medical Sales and Corporate Accounts at Northern Digital Inc. in the field computer assisted surgery and intraoperative navigation.

Leaving Medical Device industry in 2005 he was heading Sales & Marketing at SensoMotoric Instruments GmbH in Berlin in the field of oculomotoric and eyetracking technologies before joining the Vision Care business group of ZEISS in 2011 where he is managing Professional Relations, Academic Affairs and Technical Marketing.

What do you do in your current role?

Fostering interaction with academia, building robust relationships with partners (institutes and the people). Ensuring aligned internal vision to become a reliable partner. Building interfaces and touchpoints that facilitate networking and exchange with scientific and medical community. Gathering input to stimulate innovation processes, also supporting transfer of company knowledge into to the communities

What do you enjoy most about the job?

Communication and interaction with academic people around the globe, building trustful relationships and foster exchange between academia and corporate structures. Being part of (temporary) built structures that pursue identical goals from various angles. Learning every day when entering new disciplines and domains in industry, research and medicine.

What are the challenges you face in your job?

Bridging interests and managing expectations: Convincing corporate that the often slow process in establishing relations will likely pay-off in future (not short-term), while convincing external partners that industry is not a partner pursuing selfish commercial interest in exhausting ideas or exploit labor and expertise. Together am modern ecosystem can be set-up allowing to lead invention through innovation to relevant and tangible success

What attracted you to this position?

Bridging function across entities within organization, but also across corporate and academia. Interacting with people with diverse skills, expertise and cultural background. Supporting economic success via different than classical channels.

What skills have been useful in getting and doing the job?

Scientific background always helps in technology related industry and research domains. Interest in communication, interaction, business processes etc. allows to take different observer positions and hence allowing to understand needs. In particular professional experience in business development, product management, sales, people management helps a lot to enlarge footprint and developing the necessary interfaces.

What is your one tip for scientists who consider a move to this sector?

Working in this segment imposes a situation where delegation is rare (achievements come through convincing, engaging partners and coworkers) and the job is lacking routine and defined activities. A job scenario with little guidance, secure processes and prediction should be rather motivating than scaring. In the end it is about interest in people and how to align interests and needs.

You can contact me via:

- E-mail: [REDACTED]
- LinkedIn, Xing

Dr. Jürgen Erb

Baden-Wuerttemberg Cooperative State University (DHBW)
Karlsruhe

Job

Professor, Degree Program: Safety Management

Sector

Education
Degree Program Specialisations: Radiation Safety,
Environmental Technology, Occupational Safety

Scientific Background

Experimental Physics, Medical Physics, Radiation Safety
PhD obtained in 1995
Postdoc experience: 5 years



Jürgen Erb received his Ph.D. in Physics from the University Erlangen-Nuremberg, Germany, in 1995 with a thesis on “Invasive Microwave Hyperthermia” at the Department of Radiation Oncology and at the Institute of Microwaves and Photonics (LHFT). In 1996 he finished his postgraduate studies in “Medical Physics and Technology” at the Distance and Independent Studies Centre (DISC) at the University Kaiserslautern, Germany.

As a Postdoctoral Research Scholar of the Dr Mildred Scheel Cancer Foundation he worked for two years on “Model Based Dose Calculation Algorithms” at the Department of Radiation Medicine at the University of Kentucky, Lexington, Kentucky until 1998.

Back at the University Erlangen-Nuremberg, he conducted research in the field of “Medical Imaging and Digital Image Processing” with special focus on patient dose in computed tomography (CT). The project was financed by the Bavarian Research Alliance (BayFOR), Munich, Germany.

From 2001 to 2011 he worked as Senior Course Director at the Karlsruhe Research Centre (FZK), later Karlsruhe Institute of Technology (KIT), educating more than 10.000 physicians, dentists, veterinarians, scientists, engineers, technicians and therapists in “Radiation Protection” always in close collaboration with clinics, supervisory authorities and certified experts.

In 2011 Dr Jürgen Erb was appointed full professor for “Safety Management” at the Baden-Wuerttemberg Cooperative State University (DHBW) in Karlsruhe. The degree program includes the specialisations “Radiation Safety”, “Environmental Technology” and “Occupational Safety”.

What do you do in your current role?

- Managing a Degree Program
- Lecturing in a Degree Program
- Hiring Lecturers
- Student Advisory Service
- Support Public Relation
- Support Institution
- Radiation Safety Duties

What do you enjoy most about the job?

- Mostly having to deal with young people
- “Academic Freedom”
- Diversity: Every day is different!
- A lot of opportunities for cooperation
- Academic studies are “indeed” related to practical work
- Input from businesses and industries
- Most students feel to be a part of the degree program even after graduation

What are the challenges you face in your job?

- To get everything necessary done just in time

What attracted you to this position?

- Tenure track position
- Acceptable working conditions
- Pleasant-natured colleagues
- Straightforward size of the institution
- Lecturing with joy and enthusiasm is possible

What skills have been useful in getting and doing the job?

- Perseverance
- Common Sense
- Long-term education
- Multi-tracked education
- To be both, generalist and specialist, according to situation
- Managing Skills
- Soft Skills

What is your one tip for scientists who consider a move to this sector?

- Find out what you like to do - Find out what you do best - Do what you like to do best!
- Never give up!

You can contact me via:

- E-mail: [REDACTED]
- www.dhbw-karlsruhe.de/allgemein/studiengaenge-technik/sicherheitswesen

Dr. Kay-Uwe Kasch

Beuth University of Applied Sciences
Berlin

Job

Professor for Medical Physics
Dean of Faculty

Scientific Background

Physics
PhD obtained in October 1996
Postdoc experience: 6 years



Studying in Dresden and Heidelberg, I graduated in physics in 1992 (Diplom). I spent 9 months as a Ph.D. student at DKFZ before I won a DAAD-Scholarship that brought me to TRIUMF in Vancouver, B.C/Canada for three years. There I worked at my Ph.D. thesis over proton cancer therapy, graduating in 1996.

After a 6-year-postdoc at Charité Berlin I went to the King-Abdullah-Aziz-University in Jeddah/Saudi-Arabia for 4 years, where I established and then taught (parts of) a Medical Physics course. In 2006 I returned to take on a Professorship in Medical Physics at the Beuth University Berlin.

What do you do in your current role?

Head of the department of Mathematics, Physics and Chemistry, Coordinating all activities of the department, in my specialty I teach about 5-9 hours a week, I supervise Bachelor- and Master theses, I am coordinating one industry cooperation

What do you enjoy most about the job?

The people, particularly the students.

What are the challenges you face in your job?

Political constraints, first and foremost money constraints.

What attracted you to this position?

I always wanted to combine scientific work with teaching (young people).

What skills have been useful in getting and doing the job?

Curiosity, networking, getting around, trying different things and places, being open for new experiences, listen before talking.

What is your one tip for scientists who consider a move to this sector?

Getting teaching experience (do I really like this?)

You can contact me via:

- E-mail: [REDACTED]
- LinkedIn

Dr. Matthias Ebert

Justus-Knecht-Gymnasium
Bruchsal

Job

Teacher for Mathematics and Informatics

Sector

Gymnasium

Scientific Background

Research in medical engineering
(x-ray computed tomography and radiation therapy)
PhD obtained in October 2001



After obtaining his diploma in medical informatics, Matthias Ebert did his PhD at the German Cancer Research Center in Heidelberg. The following 2 years, he worked as software engineer at MRC Systems GmbH, Heidelberg and another four years as project manager at Siemens Medical Solutions Heidelberg.

In 2008, he did a one year teacher trainee at Justus-Knecht Gymnasium Bruchsal where he is teaching mathematics and informatics since 2009.

What do you do in your current role?

Teaching mathematics, informatics at a Gymnasium (class levels from 5 to 12); counseling students, parents and colleagues (school counselor); leading the department for informatics; administrating the computer network for educational purposes

What do you enjoy most about the job?

The job has many facets. I like to work with children and teenagers, to encourage them, to support them and to help them developing their talents.

What are the challenges you face in your job?

The time I can spend with individual students is quite limited. The classes and courses are large. The infrastructure facilities at German schools (rooms etc.) are often suboptimal because funding is problematic.

What attracted you to this position?

I like teaching. The challenge to explain a complex matter in easy, but still correct words attracts me very much. I consider the opportunity to accompany young people for a period of their life a real privilege.

What skills have been useful in getting and doing the job?

Empathy for children and teenagers is an absolute prerequisite for a teacher. Social skills are much more important than deep expertise in the school subjects (although the latter ones are not irrelevant). The ability to think analytically is very helpful.

What is your one tip for scientists who consider a move to this sector?

Try it out in practice whether you like to be with children and teenagers in a school setting before you decide to become a teacher. It can be the most exciting job if you like it, but you can suffer from a burn-out sooner or later if you do not.

You can contact me via:

- E-mail: 

Session 3 – 13:30 pm

Dr. Julia Telsemeyer

Lenzing Gerber Stute Patent Attorneys
Osnabrück

Job

Patent attorney trainee

Scientific Background

Medical Physics
PhD obtained in July 2012



Dr. Julia Telsemeyer did her diploma in physics at the University of Heidelberg with specialization in Medical Physics. For her PhD at the University Hospital and German Cancer Research Center in Heidelberg she did research in the field of Imaging in Heavy Ion Therapy.

Since 2012 she is working as a patent attorney trainee at Lenzing Gerber Stute Patent Attorneys in Osnabrück.

What do you do in your current role?

Drafting patent applications and responding to official decision send by the patent offices, Communication with clients, Distance Learning Course Law for Patent Attorneys

What do you enjoy most about the job?

The variety of cases.

What are the challenges you face in your job?

Communication with the inventor and based on that drafting of the patent application, Legal questions

What attracted you to this position?

The challenge to deal with various different technical areas in combination with legal questions.

What skills have been useful in getting and doing the job?

Broad technical knowledge, eager for knowledge, interest in legal questions, interest in the subtlety of language, being well organized, outgoing and communicative

What is your one tip for scientists who consider a move to this sector?

It is a long way to become a patent attorney, so be well informed before you decide to go that way. I suggest to do an internship- not only to find out if the position suits you but also to get to know the law firm you are interested in.

You can contact me via:

- E-mail: 
- Xing

D-FINE GMBH

DIE SPEZIALISTEN FÜR RISK & FINANCE

Branche	Beratung (Consulting), Finanzdienstleistungen (Financial Services)
Produkte	Unternehmensberatung/Strategische, quantitative und technische Beratung im Risikomanagement
Standorte	Inland: Frankfurt am Main, München, Weltweit: Hong Kong, London, Wien, Zürich
Mitarbeiterzahlen	Weltweit über 450
Anteil von Hochschulabsolventen	100 % der Mitarbeiter
Bedarf für aktuelles Jahr	Fortlaufend
Gesuchte Fachrichtungen	Informatik, Mathematik, Physik, Wirtschaftsingenieurwesen, Wirtschaftswissenschaften
Einstiegsmöglichkeiten	Berater/-in
Praktika	Praktika sind prinzipiell mit einem sehr guten bis guten Vordiplom/Bachelor möglich. Die Mindestdauer für ein Praktikum beträgt 8 Wochen.
Studien- und Diplomarbeiten	Diplomarbeiten sind möglich. Die Themenvorschläge kommen von dem Bewerber/der Bewerberin.
Auslandseinsatz	Ein Einsatz im Ausland ist teilweise möglich.
Erwünschte Zusatzqualifikationen	Wir suchen Sie als Physiker (m/w), Mathematiker (m/w), (Wirtschafts-)Informatiker (m/w) oder Wirtschaftswissenschaftler (m/w) mit entsprechend quantitativ ausgerichteten Vertiefungsrichtungen. Sie besitzen einen exzellenten Universitätsabschluss, sprechen fließend Englisch und Deutsch und haben weit überdurchschnittliche mathematische Fähigkeiten. Sie haben darüber hinaus sehr gute IT-Kenntnisse und sind idealerweise bereits mit Statistik, Numerik und Finanzmathematik vertraut.
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Kontakt

Frau Sabrina Adam, HR/Recruiting
Opernplatz 2, 60313 Frankfurt, T 069/907 37 - 555
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d-fine

Dr. Ralph Leemüller

DFS Air Traffic Control Germany
Langen

Job

Senior Project Manager

Sector

Research & Development

Scientific Background

Physics: Radiotherapy, Solid State Physics,
Semiconductors, Optics
PhD obtained in 1996
Postdoc experience: 0.5 years at DKFZ,
16 years in R&D at DFS



After Dr. Ralph Leemüller did his diploma in physics at Johannes-Gutenberg-University Mainz & Technical University Darmstadt, he obtained his PhD in 1996 at the University of Heidelberg and DKFZ in the field of chemotherapy and radiotherapy at brain tumors. For the last 16 years he is working in Research and Development at DFS Deutsche Flugsicherung, the German air traffic control, where he is team leader of the Real Time Simulation group and deputy head of Simulation department. Additionally he is working as Project Manager in European validation projects for future air traffic management for several years.

What do you do in your current role?

Research & Development at DFS aims to develop and test innovations to make DFS and the overall air transport system fit for the future, both on a national and international level.

My position is team leader Real Time Simulation and deputy head of department Simulation, an integrated organisation for fast time and real time simulations.

In addition I'm working as DFS Project Manager of a European validation project: I'm leading inter cultural working groups and we work for validating the future air traffic management concept of operation in En-Route to enhance capacity and safety.

What do you enjoy most about the job?

Working at the sharp end of operational and system developments for future air traffic control. The work in intercultural and interdisciplinary groups throughout Europe is enjoying and challenging on both sides. Working groups are often a mixture of different backgrounds and educations.

What are the challenges you face in your job?

Challenges are often the above mentioned opportunities, but time pressure to deliver results in intercultural working groups is a real challenge. The aspects of human factors have to be recognized in daily work.

What attracted you to this position?

I am a Senior Project Manager with extensive experience of working with a diverse range of internal and external stakeholders. Proficient in managing teams of professionals with different educations to deliver complex, multimillion euro projects, I use strategic planning and strong communication skills to ensure client projects are delivered on time and within budget. My experience of working in industry has shown me that collaborating effectively with other people who are well versed in other disciplines is an important skill to improve whenever possible.

I am adept at managing simultaneous projects aimed at increasing engagement, my physical background is always being called upon for skills in techniques and logic, the ability to understand quickly concepts, and the ability to organize amounts of technical data and to extract needed information. Sometimes I never know at the beginning of a day what I will have done by the end of the day, but I know it will be interesting and challenging.

What skills have been useful in getting and doing the job?

- Communicative team player skills
- Competence in intercultural work and management
- Effective coordination of work of teams
- Good problem solving and analytical skills
- Ability to foster and maintain collaborative working relationships at national and international levels
- Strong communication skills
- Computer science and software development.

What is your one tip for scientists who consider a move to this sector?

You should be open minded and have a broad understanding of technical aspects which will be useful in air traffic management. See also website of DFS.de/career.

You can contact me via:

- E-mail: [REDACTED]

Dr. Rochus Herrmann

d-fine
Frankfurt

Job

Consultant

Sector

Risk and Finance Consulting

Scientific Background

Physics
Dosimetry of particle beams for medical applications
Modelling of detector response



After obtaining his Diploma in Physics from Heidelberg University, Rochus Herrmann moved to Aarhus, Denmark. Here he worked in the Aarhus Particle Therapy Group and obtained a PhD in Physics. His research was focused on dosimetry in ion beams.

Since 2012 he is working at d-fine GmbH in Frankfurt, a consulting firm specialised in risk management and finance.

What do you do in your current role?

I work independently on subtasks, do analysis of identified problems, solve them and write the according documentations.

What do you enjoy most about the job?

The new problems and challenges that come with every new project as well as working in a motivated team.

What are the challenges you face in your job?

The changing work environment and new questions and problems with new projects.

What attracted you to this position?

The prospect of doing something completely different, while working for a company which hires you because you are a physicist, not despite of.

What skills have been useful in getting and doing the job?

For me an affinity to IT and experience in numerical simulations are very helpful. When working with customers on a daily basis, the communication skills obtained from teaching are very useful.

What is your one tip for scientists who consider a move to this sector?

Get interested in the finance world.

You can contact me via:

- E-mail: [REDACTED]

Dr. Klaus Borkenstein

SAP
Walldorf

Job

Project Manager Custom Development

Sector

Business Software

Scientific Background

Physics, Mathematics, Medical Physics
PhD obtained in November 2001
Postdoc experience: 2 years



Klaus Borkenstein studied Physics and Mathematics in Freiburg and at the Universidade de Coimbra. After his PhD in Physics at the University of Heidelberg, Klaus Borkenstein worked at the DKFZ as a scientist, focusing on Biological Modeling, Treatment Planning and Functional and Molecular Imaging for Radiotherapy. In 2012 he started his current job as a project manager at SAP, looking back on nine years of experience in development of Medical Software Products at Siemens Healthcare as a technical lead, project manager and product manager.

What do you do in your current role?

In my current role I manage projects that aim to bridge the gaps that international SAP customers – mostly multinational corporations – have with their Business Software. In this role I am responsible to establish an effective and efficient project set-up, define the project scope jointly with the customer, ensure all project deliverables are met on time, budget and quality, and successfully go live with the customer.

What do you enjoy most about the job?

- Having to simultaneously juggle many different balls of different sizes and shapes: I have to interact with customers as well as the development teams within SAP. I have to communicate with little detail with managers and with much detail with developers. I have to deal with formalities like contract negotiations and Quality Management processes on the one hand and business needs and technical solutions on the other

- Working with teams across the globe. My current project has sub-teams in Palo Alto, Montreal, several German locations, and Delhi
- Getting to work on complex problems

What are the challenges you face in your job?

Custom Development project usually come with extremely ambitious timelines. You easily get the feeling you are always catching up rather than managing pro-actively.

What attracted you to this position?

- After my Post-Doc at dkfz I worked at Siemens Healthcare for nine years, having roles as Technical Lead, Project Manager, Quality Manager and Product Manager. In these roles I always collaborated closely across departments. This is only possible efficiently with well integrated Business Software with good workflow.
- At Siemens Healthcare I worked in prototyping, product development and product management. I realized your company can fail if it has the best patents and best prototypes but lacks efficient business processes and Business Software ensuring you can deliver, install and service your products at the customer.
- At SAP Custom Development I get the best of both worlds: Frequent and direct customer interaction and product development
- The ambitious time lines of Custom Developments has a great advantage. You get to see your product go live rather than having to wait many years to see it in action

What skills have been useful in getting and doing the job?

Skills acquired at dkfz:

- Analytical skills
- Structuring complex problems; keeping the big picture in mind but focusing on closing things step by step
- Questioning yourself and others; Never taking anything for granted

What is your one tip for scientists who consider a move to this sector?

- Keep your curiosity alive
- Don't take things for granted
- Enjoy doing things you haven't done before

You can contact me via:

- E-mail: [REDACTED]
- LinkedIn, Xing

Dr. Thomas Neff

KUKA Laboratories
Augsburg

Job

Product Owner Software - Medical

Sector

Automation
Medical robotics

Scientific Background

Computer science, Radiation Therapy
PhD obtained in October 2005
Postdoc experience: 1 years



Dr. Thomas Neff studied Medical Informatics at Heidelberg University from 1997-2002. He made his PhD in the field of imaging for radiation therapy in 2005 at DKFZ. After a year post-doc at DKFZ and University of Western Ontario (London, Canada), he joined KUKA Robotics in Augsburg in 2006 as software developer.

He worked as project manager for evaluation projects in the field of medical robotics and is currently Product Owner for software in medical robotics. In this role he is responsible for generation and correct implementation of customer requirements.

What do you do in your current role?

Work with customers/product management and software developers to generate appropriate requirements for the development road map.

What do you enjoy most about the job?

Discussions with customers about new ideas. See new applications in the field of medical robotics.

What are the challenges you face in your job?

Customers don't know what they want exactly. But they know what they don't want if you present results. They also know what they want additionally. The challenge is to explain the customer the possibilities to get precise requirements before starting development.

What attracted you to this position?

The field of medical robotics is quite new. To work in this area means a lot of freedom to pursue your interests.

What skills have been useful in getting and doing the job?

Skills in software development and regarding development processes. Domain knowledge in medicine (especially radiation therapy) and robotics.

What is your one tip for scientists who consider a move to this sector?

If you want to work in software development increase your knowledge in software development processes. They increase also quality of software in scientific projects.

You can contact me via:

- E-mail: 



Dipl. Phys. Franz Kettenbaum

Kettenbaum medical product consulting
Rodalben

Job

General Manager

Sector

Consulting
Certification
Quality Management

Scientific Background

(Bio-) Physicist



After having finished university examination, Franz Kettenbaum worked at the University Homburg in the field of Radiation protection and biostatistics.

Furtheron, he was an application engineer at Dow Corning in Germany, Switzerland and Austria and later on did resp. Quality Assurance and Validation of Beta-Gamma-Service. Now he is the General Manager at Kettenbaum Consulting.

What do you do in your current role?

There are 2 main activities:

- Performing assessments of Medical Device manufacturers (certification audits) for Notified Bodies and acting as Technical Expert for some selected medical Devices.
- Giving Consultancy Services for Manufacturers of Medical Devices

My role: General Manager, Organizer, Executor, in short: jack of all trades in the name of practically implemented quality management.

What do you enjoy most about the job?

All of it: Traveling around the world, meeting many people, visiting companies, seeing many new future Devices, and all focused on a very broad range of Medical Devices.

What are the challenges you face in your job?

Constantly new legislations, an extreme variety of products, no two companies are the same. You have to grasp the essentials very quickly and form rapidly an opinion on something new.

You are self-employed. In German: Als Selbstständiger arbeitet man selbst und ständig.

Somebody described the function of a quality coach in the following way:

Your job is to teach an expert (who is 20 times more experienced than you are) how to perform better. That's a challenge and the crux of the matter. And there are many more.

What attracted you to this position?

Exactly the same: Constantly new legislations, an extreme variety of products, no two companies are the same and you have to grasp the essentials very quickly and form rapidly an opinion on something new.

What skills have been useful in getting and doing the job?

Some people say: "A Biophysicist knows everything - but nothing right."

To understand quality you should know all and in detail. Whatever you learned and experienced in your life - believe me: its USEFUL!

Essential for me were an interdisciplinary education (physics, radiation protection, biostatistics, hemostaseology, data logging, toxicology / biocompatibility), industrial experiences in product and process validations, and a natural joy of dealing with people.

What is your one tip for scientists who consider a move to this sector?

If you worked interdisciplinary somewhere between Legislation, Physics, Microbiology, Toxicology, Chemistry with a keen eye for practical implementations, and you love to work with people - you might enjoy this job.

You can contact me via:

- E-mail: 



Dr. Lothar Spies

jung diagnostics
Hamburg

Job

Managing Director

Sector

Medical device industry

Scientific Background

Medical imaging across various fields
(CT, PET and MR, image post-processing)
PhD obtained in November 1999



Lothar Spies, medical physicist by training and managing director of jung diagnostics, has more than 15 years of experience in medical imaging with a track record of successful product innovations in the field of computer-aided diagnosis and treatment planning. His main focus is on structural imaging applications.

What do you do in your current role?

I manage a start-up company.

What do you enjoy most about the job?

Diversity of the job spanning from scientific work to business and people management.

What are the challenges you face in your job?

To develop a new market into which we can sell our innovative services.

What attracted you to this position?

I have a lot of freedom to operate.

What skills have been useful in getting and doing the job?

Everything I have acquired in the past. And nevertheless I sometimes feel my set of skills is still too limited.

What is your one tip for scientists who consider a move to this sector?

The problems we face are not difficult but complex. Endurance and creativity help a lot.

You can contact me via:

- E-mail: 

Dr. Florian Meise

Siemens AG
Erlangen

Job

Collaboration Manager

Sector

Healthcare Industry

Scientific Background

Development of radio frequency receive arrays for MRI
PhD obtained in April 2010
Postdoc experience: 1 year industrial R&D
2 years scientific Postdoc



Florian Meise worked at Lammers Medical System GmbH after he did his PhD in 2009. For 2 years he was a postdoc at the German Cancer Research Center in the field of RF-engineering for MRI ultrahighfield applications.

Since 2012, he is working as a Research and Development Collaborations Manager at Siemens Healthcare in Erlangen, Germany.

What do you do in your current role?

Research collaboration management for MRI topics, scientific support within collaboration projects, process improvement, presentation of topics in board meetings, management of regional collaboration management teams.

What do you enjoy most about the job?

Insights into pre-development projects of the world market leader MRI on a global level, everyday challenges and high level of interaction with different cultures and job profiles.

What are the challenges you face in your job?

Huge amount of communication (email, phone, virtual meetings) and work packages.

What attracted you to this position?

Divers job profile: Science, product development, project management, customer interaction, cross-cultural responsibility

What skills have been useful in getting and doing the job?

Good communication skills, good network in research and industrial community, Technical and scientific profile, specific knowledge of MRI research topics.

What is your one tip for scientists who consider a move to this sector?

Identify, if you can contribute significantly with your experience and knowledge and find out for yourself, what you really want and for what you can really motivate yourself.

You can contact me via:

- E-mail: [REDACTED]
- LinkedIn, Xing

Dr. Matthias Korn

RAPID Biomedical GmbH
Würzburg

Job

RF coil development, project management

Sector

RAPID Biomedizinische Geräte

Scientific Background

Physics

PhD obtained in May 2009

Postdoc experience: 2 years



Matthias Korn obtained his degree in Physics (Diplom-Physiker) and first skills in high frequency electronics with a hardware-oriented thesis work at the University of Gießen. The first contact with medical physics he had as PhD-student at DKFZ, where he developed coil concepts for rapid and motion-compensated MR-imaging of small animals. During a postdoc at IR4M in Orsay he further developed his skills and got in contact with RAPID Biomedical, his current employer.

What do you do in your current role?

Planning and designing customized coils for Magnetic resonance (MR)-systems. This includes mechanical design and functionality, electromagnetic simulation, construction (“soldering”), intermediate and final testing.

What do you enjoy most about the job?

Developing many different and useful products from start to finish. Accompanying the complete production process. Working in a great team of qualified and motivated colleagues.

What are the challenges you face in your job?

Balance customer needs, technical feasibility and legal regulations to obtain a product, which fulfills all of these requirements.

What attracted you to this position?

My first closer contact with RAPID was a 1 month internship in the framework of a collaboration with the lab I was working at the time. This gave me the possibility to get some insight to the company, the atmosphere, the tasks and the daily work, which I liked a lot. When my postdoc contract ended, I decided to apply for a position...

What skills have been useful in getting and doing the job?

Several years of experience in the field in different research labs.

What is your one tip for scientists who consider a move to this sector?

Do it, if you like hardware, goal-oriented working, fascinating projects, and literally tangible results.

You can contact me via:

- E-mail: [REDACTED]
- Facebook

Session 4 – 16:30 pm

Dr. Marcus Götz

MRC Systems GmbH
Heidelberg

Job

Managing Director

Scientific Background

Laser and Medical Physics
PhD obtained in February 1996



Marcus Götz studied physics and received his doctorate in physics from the University of Heidelberg. In his research he worked towards the clinical application of specific lasers with ultrashort pulses.

At the time of concluding his doctorate MRC Systems GmbH was founded as a new company. He was the first employee of MRC in 1996, started as a project leader and – following trainings in business administration – works as managing director since 1999.

What do you do in your current role?

Corporate management, business development, marketing and sales, technical supervision of innovative R&D projects

What do you enjoy most about the job?

Diversity of activities, high identification with “self-made” products, working with/in a team of skilled individuals

What are the challenges you face in your job?

High responsibility for business and team, market demands in medical technology

What attracted you to this position?

Taking matters in my own hands.

What skills have been useful in getting and doing the job?

Technical/physical know-how, flexibility, training in business management

What is your one tip for scientists who consider a move to this sector?

Enjoy the combination of physics and economics.

You can contact me via:

- E-mail: 

PDN – The PostDoc Network at the DKFZ

Our mission

The PostDoc Network (PDN) of the DKFZ was founded to provide and spread information on career opportunities specifically for PostDocs. The scientific and personal diversity of the postdoctoral community encountered at the DKFZ required the establishment of a unifying platform that efficiently represents the interests and needs of postdocs. The PDN is continually aiming to maintain and grow a vibrant postdoctoral community that will contribute to improve the quality of the postdocs' work, their working conditions and will establish an environment that will enrich your postdoctoral experience at the DKFZ.

You are PostDoc at the DKFZ?

Do you want to:

- be part of the PDN community?
- profit from networking?
- learn more about career opportunities?

Do you have ideas you would like to put into action?

That's why YOU should join US!

We have regular meetings:
PDN Committee Meeting (every 2 weeks)
Get-Together (every 4 weeks)

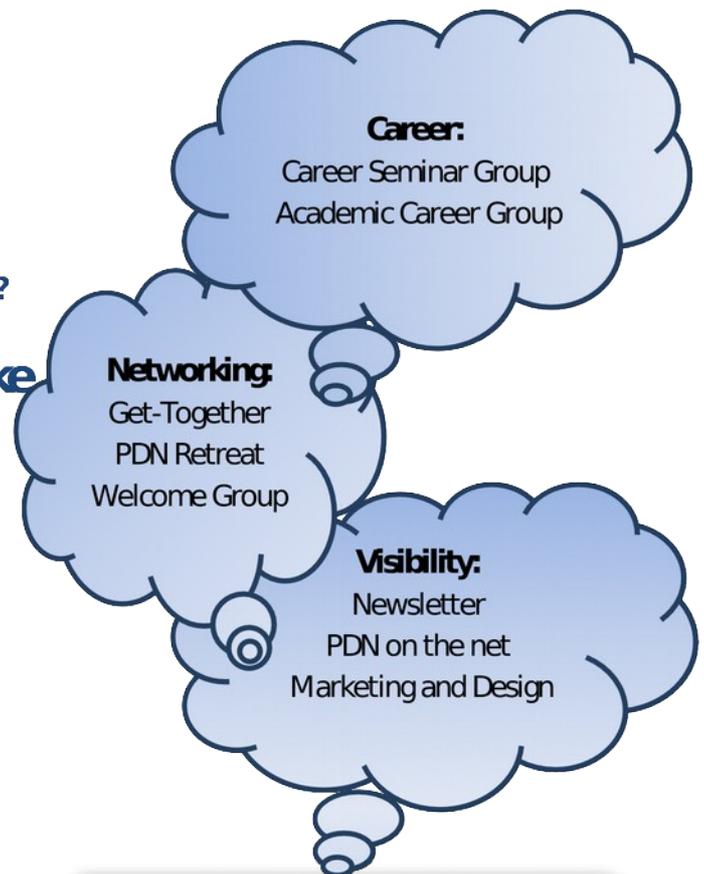
Find us online:

www.dkfz.de/pdn

join us on facebook : PDN@DKFZ

Join/ Use our mailing list : all-postdocs@dkfz.de

WE are the committee,
YOU are the network!



Career Service

for Masters/PhD students/PostDocs

www.dkfz.de/careers

CAREER SERVICE

dkfz.

GERMAN
CANCER RESEARCH CENTER
IN THE HELMHOLTZ ASSOCIATION

CALENDAR of events in Heidelberg <http://tinyurl.com/5wuerfx>

NETWORK on LinkedIn

For optimal career development **connect** to scientists with interesting jobs. Current and former dkfz scientists are warmly invited to join, as well as collaborators and other interested scientists.

<http://www.linkedin.com/groups/DKFZ-Career-Network-4831669>



INFO on FACEBOOK: To receive updates with links to interesting events and pages (about 3 per week) please LIKE the page Dfkz PhD Careers. To join groups become a FRIEND

www.facebook.com/phdcareers



E-MAIL DISTRIBUTION LIST jobs-for-PhD: To receive job relevant job ads, information and events register on intranet <http://listhost/jobs-for-PhD> (externals can be added on request)



WORKSHOPS AND COURSES

DKFZ PhD students and postdocs can participate in workshops on e.g. application skills, CV writing, "Career Plan B/Life Work Planning", soft skills, business for scientists etc.

OPEN CAREER LUNCH: For all interested scientists to discuss with a guest about his/her career moves we have "career lunch" on Thursdays at 1 pm.

SCIENCE & SOCIETY: Discuss your role as a Scientist, Science & Ethics, Talking to the Public, and Volunteering

- Interest – Engagement – Experience on your CV
- JOIN <http://www.facebook.com/groups/scisoc.dkfz>

DKFZ Career Manager: Dr. Barbara Janssens is Belgian (PhD in molecular/cell biology Ghent University), did a postdoc in Paris and worked five years as Editor at Wiley-Blackwell.

Career Service Project Coordinator: Marion Gürth studied Biology at the TU Darmstadt, worked as Research Assistant at Heidelberg University and as freelance website translator.

E-mail: careers@dkfz.de Tel: +496221 42-2146 or 1762

Office H1.06.015b (15b 6th floor main building west)

at the Graduate Program Office M070

Careers Service: Scientific Life beyond the Lab



Feedback, please!

Thank you for joining this event.

Please briefly answer a few questions on

www.surveymonkey.com/s/ZZJFW5F



contact us:

medphys-careerday@dkfz-heidelberg.de
06221 42 2454

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Schedule

8:30 Registration

9:00 Welcome

Session 1

9:30 **S. Scheib**, Senior Scientist in Image Guided Radiotherapy, Varian

9:45 **F. Hensley**, Medical Physicist, University Hospital Heidelberg

10:00 **S. Ueltzhöffer**, Project Manager/Head of Innovation Management, Precisis

10:15 **H. Treuer**, Chief Physicist Dept. of Stereotaxy and Functional Neurosurgery, University Hospital Cologne

10:30 **K.-H. Grosser**, Chief Medical Physicist, Claraspital

10:45 **C. Lappe**, Manager Professional Relation/Scientific Affairs & Technical Marketing, Carl Zeiss

11:00 Coffee

Session 2

11:30 **J. Erb**, Professor, Duale Hochschule Baden-Württemberg

11:45 **K.-U. Kasch**, Professor, Beuth Hochschule für Technik Berlin

12:00 **M. Ebert**, Teacher, Justus-Knecht Gymnasium

12:30 Lunch & Coffee

Session 3

13:30 **J. Telsemeyer**, patent attorney trainee, Lenzing Gerber Stute Patentanwälte

13:45 **R. Leemüller**, Research Center DFS Deutsche Flugsicherung

14:00 **R. Herrmann**, Consultant, d-fine

14:15 **K. Borkenstein**, Project Manager Custom Development, SAP

14:30 **T. Neff**, Product Owner Software - Medical, Kuka Laboratories (Robotics)

14:45 **F. Kettenbaum**, General Manager at Kettenbaum Consulting

15:15 Coffee

Session 4

15:45 **L. Spies**, Managing Director, jung diagnostics

16:00 **F. Meise**, Collaboration Manager, Siemens Healthcare

16:15 **M. Korn**, RF coil development/project manager, Rapid Biomedical

16:30 **M. Götz**, Managing Director, MRC Systems

17:00 Closing remarks