

Fraunhofer

Arbeitswirtschaft und Organisation



Learning – Competence – Performance

13th and 14th of November, 2007 Stuttgart, Germany

The conference will be organised by the Fraunhofer Institute for Industrial Engineering IAO

in cooperation with the PROLEARN Network of Excellence in Professional Learning

www.professional-training-facts.com







A dynamic market environment makes it necessary for companies to adapt their organisation and performance profiles. Moreover, it calls for a targeted development of competences of both staff and senior management.

Nowadays, excellent executives and employees with entrepreneurial thinking are seen as crucial success factors in competition.

Developing and retaining employees is especially important when new markets and areas of business opportunities emerge.

The development and implementation of new production processes and services can only be successful, if both staff and executives are prepared to develop their abilities and to solve new tasks. In this respect, the systematic and anticipatory management of the required competences plays a decisive role.

Competence management increases companies' competitiveness by reducing the time that is necessary to bridge competence gaps and acquire skills that are specific for the company and the workplace. Thus the objective of competence management is to increase company performance through mastering new and changing services, production and development processes more quickly.

To be able to meet these demands it is necessary to adapt existing learning, training and education offers to company and personnel demands. In many cases further training measures and courses are offered too late to support business process changes or they are not adapted to the needs of the employees. Moreover, educational planning and training offers are often only loosely linked to timecritical or future requirements in the company. The ability to accurately handle knowledge and information in an accelerated competition is getting more and more important; to transform and implement new knowledge into practical action is as important. Workoriented learning supports an effective competence management and serves to develop new solution strategies with regard to the work process.

The 3rd international conference »Professional Training Facts 2007 Learning - Competence - Performance« offers a forum for information and exchange to potential users and developers. It shows new trends and challenges as well as solutions and practice examples from a company perspective. Speakers from companies as well as research institutes will present methods. concepts and solutions with regard to the guestion of how the triad of »Learning - Competence - Performance« can be designed today and in the future. As it is an international conference in cooperation with the European PROLEARN Network of Excellence, the main conference

language will be English. Additionally, there will be several tracks and offers in German.

We are looking forward to seeing you!

Prof. Dr.-Ing. Dr.-Ing. E.h. Dieter Spath

12.00 a.m.	Registration
1.00 p.m.	Welcome
1.15 p.m.	Competence Management – Requirements, Concepts, Solutions [1]
3.00 p.m.	Coffee Break
3.30 p.m.	E-Cooperation and Competence Management with Synchronous and Mobile Communication Tools [4]
5.30 p.m.	Short Break
	All Special Sessions contain presentations of the laboratories
5.45 p.m.	Special Session ServLab [A]
8.00 p.m.	Conference Dinner



Social Software: Web 2.0 and Competences Wer? Wie? Was? Wissen anwenden leicht gemacht [3] Track in German language

Improving Performance in Industry Through Tailored Technology Enhanced Learning Arrangements [5] IT in der Weiterbildung
Track in German language

Special Session CAVEEE [B]

Special Session
Business Game Live! [C]

till 9.00 a.m.	Registration
9.00 a.m.	Keynotes [:] Dieter Spath Fraunhofer IAO, IAT, University of Stuttgart, Germany Learning – Competence – Performance
	Karlheinz Lindner Schaeffler KG Competence Development at Schaeffler KG – an International Perspective
10.45 a.m.	Coffee Break
11.00 a.m.	Learning Café Future Trends in Competence Management and Learning [7']
11.00 a.m. 12.30 p.m.	Future Trends in Competence Management and Learning
	Future Trends in Competence Management and Learning [7 ¹]



Identification of Needed Competences and Skills

[8]

Von nix kommt nix: Kompetenz, Stolz und Anerkennung als Basis für exzellente Dienstleistungen [9] Track in German language

Vocational Competence for a Sustainable Development [10]

Kompetenzmanagement aus soziodemographischer Perspektive [11] Track in German language

Program description

Professional Training Facts 2007 13th of November



1.15 p.m - 3.00 p.m.

Track 1 Competence Management Requirements, Concepts, Solutions

In this track there will be a discussion about how the performance of small and middle-sized organisations can be brought to excellence, by using competence management systematically. After the presentation of the results of a study on the state-of-the-art of competence management and the needs of companies, different competence management approaches will be pointed out. Team oriented, local solutions will be discussed as well as softwaresupported systems. By means of software supported systems tasks can be systematically assigned to employees and, from the organisational perspective, can help to manage the human resources development. One aspect of the discussion will be competence management solutions that grow in line with the expansion of the company. It will be illustrated which contents are highly important and how theses contents have to be prepared in order to transfer them to management systems and to use them properly.

Chaired by

Jürgen Wilke Fraunhofer IAO, Germany

Claudio Zettel, PT-DLR, Germany (asked)

Developing Competencies - an European Topic

Christine Kunzmann Kompetenzorientierte Personalentwicklung & Prozessberatung Andreas Schmidt Forschungszentrum Informatik FZI, Karlsruhe, Germany Competency Oriented Human Resource Development: Towards Learning on Demand

Jürgen Wilke Fraunhofer IAO, Germany Systematically Developing Competencies at Work in Small and Medium Sized Enterprises

[2]

1.15 p.m - 3.00 p.m.

Track 2 Social Software: Web 2.0 and Competences

Web 2.0 technologies, such as wikis and blogs, are more and more used by companies in order to improve internal communication. Furthermore, social software can be used to strengthen the competencies of employees, to develop competencies needed by the company, and generally speaking to maintain and enhance the innovative ability of an enterprise, in particular of medium sized ones. Therefore, a detailed structural analysis of the different roles within the competence management of the company and the possibilities to support them with Web 2.0 technologies is needed. This track will interlink latest examples from the practioners' perspective and the research perspective trying to give an outlook on the impact of social software for competence management.

Chaired by

Ralf Klamma RWTH Aachen, Germany

Nalin Sharda Erasmus Mundus Visiting Research Professor at RWTH Aachen University from Victoria University, Australia Creativity and Innovation

Thomas N. Burg factline Webservices GmbH, Austria

ePortfolios: just another social software application or the next step of bringing business processes (in educational and business setting) online

Claudia Müller University of Potsdam, Germany Using Social Network Analysis in Compentence Management

Ralf Klamma RWTH Aachen, Germany Communities of practice and competence management

[3]

1.15 p.m - 3.00 p.m.

Track 3 Track in German language Wer? Wie? Was? Wissen anwenden leicht gemacht

In diesem Tutorial stellen wir einen neuen Ansatz für die Kompetenzentwicklung der Mitarbeiter am Arbeitsplatz vor: Arbeitsintegriertes Lernen. Dieser Ansatz und relevante Unterstützungswerkzeuge sind Fokus des großen integrierten EU Projekts APOSDLE (Advanced Process-Oriented Self-Directed Learning Environment, www.aposdle.org).

Unsere Lösungen unterstützen Mitarbeiter direkt in ihrem persönlichen Arbeitskontext und in ihrer computeraestützten Arbeitsumaebung. Ziel ist es, automatisch auf relevantes Wissen aufmerksam zu machen, die Anwendung dieses Wissens in der konkreten Situation zu unterstützen und den Wissenstransfer signifikant zu erleichtern. Wissen beinhaltet hier einerseits dokumentierte Informationen z.B. in Form von Dokumenten und andererseits ebenso Hinweise auf Experten und Kollegen innerhalb einer Organisation.

Chaired by

Stefanie Lindstaedt Know-Center, Graz, Österreich

Khaled Azzam
ComNetMedia, Dortmund,
Deutschland
Erfahrungen aus ersten Firmenanwendungen und Vision

Stefanie Lindstaedt Know-Center, Graz, Österreich Der Learn@Work Ansatz und erste Prototypen

Michael Kaiser Career Center der TU Wien, Österreich Organisationale Rahmenbedingungen

Reinhard Willfort innovation service network, Graz, Österreich Anforderungen an Arbeitsintegriertes Lernen



3.30 p.m - 5.30 p.m.

Track 4 E-Cooperation and Competence Management with Webconferencing and Virtual Classrooms

Synchronous and mobile communication tools considerably extend the possibilities for technologybased learning and cooperation and thus also the competition for competences. In an increasingly accelerated world they contribute to an increased, spontaneous interaction between individuals and work teams, besides reducing costs for travel and staff spending valuable working time travelling. At present, however, there are still psychological, technological and organisational obstacles that have to be overcome in order to achieve a widespread integration of new ways of communication and learning into existing structures.

This track will present examples and solutions

- concerning the identification of the appropriate communication tools for specific demands
- concerning the success factors for implementing web conferencing,
- concerning methods for increasing the efficiency of communication and learning
- concerning future usage scenarios of new technologies for developing competences.

Chaired by

Karin Hamann Fraunhofer IAO, Germany

Karin Hamann Fraunhofer IAO, Germany Success Factors for Implementing Web Conferencing

Simone Braun Forschungszentrum Informatik, Universität Karlsruhe, Germany Socially Aware Informal Learning Support

Birk Siegmund T-Systems Multimedia Solutions GmbH, Germany Efficiency in Selecting IP Communication Tools

Marcus Specht
Open University of the Netherlands, The Netherlands
Trends in Using new Technologies
for Competence Development

[5]

3.30 p.m - 5.30 p.m.

Track 5 Improving Performance in Industry Through Tailored Technology Enhanced Learning Arrangements

Technology enhanced learning has proven to be one of the most efficient ways for fast and sustained competence build-up in industry. It allows companies to scale training programs to a worldwide community. But even if technology enhanced training is a priori more efficient and sustainable than traditional classroom training, its potentials in delivering truly personalized learning experiences e.g., for specific job profile, are still underdeveloped. Within this track the usage of tailored technology enhanced learning arrangements is being addressed and its implications for competence management in industry are discussed.

Chaired by

Eric Ras Fraunhofer IESE, Germany

Sabine Moebs, Stephan Weibelzahl National College of Ireland, Dublin, Ireland Finding the right mix for effective technology enhanced learning. The results of an international Delphi-Study

Ludger Thomas, Sonja Trapp Fraunhofer Institute Experimental Software Engineering, Germany

Tailoring technology enhanced learning arrangements to individual needs

Matthias Rückel
time4you GmbH
Bernd Wiest
Deutsche Telekom Kunden
Service, Germany
Improving performance and
personnel competencies in industry
through technology enhanced
learning

[6]

3.30 p.m - 5.30 p.m.

Track 6

Track in German language

IT in der Weiterbildung

Mit zunehmender Bedeutung von IKT an den Arbeitsplätzen, gewinnt die Vermittlung von IKT und mit IKT in der Weiterbildung immer mehr an Bedeutung. Die Bildungsunternehmen müssen in die Lage versetzt werden, effiziente Lernangebote in diesem Umfeld anzubieten. Nur unter dieser Voraussetzung kann sichergestellt werden, dass dem schnell wachsenden Qualifizierungsbedarf sowohl in qualitativer als auch in quantitativer Hinsicht ein adäguates Angebot gegenüber steht. Bei den neuen Weiterbildungsangeboten stehen nicht mehr Zentralisierung und Systematisierung, sondern Flexibilisierung und Orientierung an realen Arbeits- und Geschäftsprozessen im Vordergrund.

Ausgewiesene Experten in den ausgewählten Feldern geben hier wichtige Hinweise und praktische Hilfen. Im Ergebnis sollte deutlich werden, dass es im Qualifizierungsbereich noch erhebliches Einsparund Entwicklungspotenzial gibt.

Chaired by

Wolfgang Reuter Bundesverband Berufliche Qualifizierung e. V. (Q-Verband)

Wolfgang Reuter Q-Verband

Digitale Medien in der beruflichen Qualifizierung – Neue Anwendungen kreativ gestalten

Till Becker KORION

Unternehmenssimulation – Arbeitsprozesse spielerisch verstehen

Eckhard Klockhaus Conciety

IT Netzwerke – Lernen neu gestalten

Rainer Römer Microsoft

Microsoft IT-Zertifikate – Aussagekräftig und anerkannt

[A]

5.45 p.m. - 6.15 p.m.

Special Session: ServLab

Services make a significant contribution to the creation of value, not only in classic service sectors, but more and more also in manufacturing. This is a known fact. However, many companies still lack structures, processes, methods and also competencies in order to implement service engineering systematically.

Fraunhofer IAO's ServLab now offers new possibilities to design services in an integrative way and to test them thoroughly at a very early stage. In the protected surrounding of the unique laboratory the overall concept of a service (architecture, equipment, processes, qualifications and especially the interaction with the customer) can be developed stepwise and quickly improved till it reaches market maturity. How this is accomplished will be illustrated by way of a practical example during a tour of the laboratory.

Chaired by

Sibylle Hermann Fraunhofer IAO, Germany



5.45 p.m. - 6.15 p.m.

Special Session: CAVEEE

Virtual Reality gives you an experience of environments, buildings or objects that have been existing, that exist far away, that will exist in future or maybe of space that only is a construct of abstract human thoughts. The highest grade of visual immersion within a virtual world can be reached in a 6-sided CAVE-Environment. Worldwide, only a handful of these environments exist. The HyPI-6 at the Fraunhofer IAO is one of them. You are invited to have your own VR-experience in the field of virtual architecture: Visit a building of the future - the »Center of Virtual Engineering« (ZVE) at the IAO that will be realized in 2009

Chaired by

Günter Wenzel Fraunhofer IAO, Germany

[C]

5.45 p.m. - 6.15 p.m.

Special Session: Business Game Live!

LIFE! is our brand for configurable haptic business games with varying learning content. So far there are seven haptic (objective) business games for different uses. All of our business games are non-competitive team games without an opponent. It is the participating team's sole objective to comply with the demands of customers and the market in order to first point out the required competences and then to address them in more detail. Business games are often complemented by group exercises. Process chains are usually mapped by means of lego bricks and forms.

Chaired by

Peter Rally Fraunhofer IAO, Germany

Program description

Professional Training Facts 2007 14th of November



9.00 a.m. - 10.45 a.m.

Keynotes – Professional Training Facts 2007

Dieter Spath Fraunhofer IAO, IAT, University of Stuttgart, Germany Learning – Competence – Performance

Karlheinz Lindner Schaeffler KG Competence Development at Schaeffler KG – an International Perspective. [7]

11.00 a.m. – 3.00 p.m.

Track 7 Learning Café Future Trends in Competence Management and Learning Chaired by

Vana Kamtsiou NCSR Greece and Tapio Koskinen, HUT Finland

[8]

11.00 a.m. - 0.30 p.m.

Track 8 Identification of Needed Competences and Skills

The issue of a profound identification of competence and skill needs is becoming increasingly important. Technological change and innovation demand new competences and skills at company level and on the labour market in general. Some gualifications are becoming obsolete but emerging new competences and skills require specific education and training. The availability of reliable and accurate information on trends allows to respond promptly to new and changing requirements. The scope of this track ranges from trends on the labour market concerning competences and skills to the depiction of different national enterprise surveys used for skill needs analysis and the presentation of specific tools of identifying needed competences and skills at company level and on the »shop floor«.

Chaired by

Alena Zukersteinova Cedefop, Greece

Bernd Dworschak Fraunhofer IAO, Germany Identification of competences at company level

Alena Zukersteinova Cedefop, Greece Enterprise surveys as a tool for identification of skill needs

Rainer Uhrmann-Nowak
Technische Akademie Esslingen,
Germany
Elmar Witzgall, wissen-koennen,
Projektforschung und Beratung,
Germany

CM ProWork – A software tool for the identification and development of competences in production systems

John Erpenbeck, Annette Schulten, Silke Keim Steinbeis Hochschule Berlin, Transfer-Institut Business Administration and International Entrepreneurship, Germany Competence management and »project competence« studies

[9]

11.00 a.m. - 0.30 p.m.

Track 9

Track in German language

Von nix kommt nix: Kompetenz, Stolz und Anerkennung als Basis für exzellente Dienstleistungen

Angeregt durch kurze Impulsvorträge im Pecha-Kucha-Stil, setzt sich das Forum mit dem Zusammenspiel von Kompetenz, Stolz und Anerkennung bei Dienstleistungstätigkeiten auseinander. Diskutiert werden unter anderem: Was bewirkt, dass Beschäftigte nicht nur gute, sondern exzellente Dienstleistungen erbringen können und wollen? Gibt es spezifische »Service Skills« ienseits der bekannten Schlüsselkompetenzen und wie werden diese ggf. vermittelt bzw. erworben? Welche Dienstleistungstätiakeiten werden hinsichtlich ihrer Anforderungen und Wertschöpfungsbeiträge unterschätzt? Ist es sinnvoll und möglich, für die qualifizierte Dienstleistungsarbeit ein ähnliches (Selbst-)Bewusstsein zu erzeugen, wie für die industrielle Facharbeit? Was könnte ein solches »Leitbild« bewirken?

Chaired by

Sybille Hermann Fraunhofer IAO, Germany

[10]

1.30 p.m. - 3.00 p.m.

Track 10 Vocational Competence for a Sustainable Development

Education is attributed a crucial role for achieving a sustainable development. Within the framework of the UN Decade of Education for Sustainable Development (2005-2014, DESD), a lot of activities and projects have already been initiated at all levels of education, which are all aimed at making the idea of sustainability the basis of as many people's action as possible.

This track focuses on projects from the area of vocational education and training. Vocational education has to pay special attention to the economic perspective so as to be able to adequately consider the social and ecological aspects of companies that are involved in production or the development of services. Special emphasis will be placed on additional potentials for innovations and opportunities which the concept of 'sustainable development' has to offer to companies.

Chaired by

Jürgen Wilke Fraunhofer IAO, Germany

Joachim Rottluff Institut für Umweltschutz in der Berufsbildung e.V., Hannover, Germany Sustainable Development - Good-

Sustainable Development - Good-Practice in Vocational Education and Work

Herbert Klemisch Klaus Novy Institut, Köln, Germany

Instruments for a Sustainable Economic Management in Business Practice

Marion Wadewitz BWAW Thüringen gGmbH, Erfurt, Germany

Vocational Education Services for a Sustainable Development

[11]

1.30 p.m. - 3.00 p.m.

Track 11

Track in German language

Kompetenzmanagement aus soziodemographischer Perspektive

Die Alterung der Gesellschaft und der Arbeitskräfte stellt spezifische Anforderungen an das Personalmanagement und das Management von Kompetenzen. Gerade ältere Arbeitskräfte verfügen häufig über zahlreiche Fähigkeiten aus verschiedenen Tätigkeitsfeldern, die durch jahrelang angesammeltes Erfahrungswissen exzellent bewältigt werden. Zwar haben einige hoch entwickelte Kompetenzen älterer Arbeitskräfte in der heutigen Arbeitswelt an Bedeutung verloren, andere dagegen sind immer noch effizient nutzbar. Somit stellen ältere Arbeitskräfte gerade aus Perspektive des Fachkräftemangels ein wichtiges Reservoir für fachlich anspruchsvolle Arbeit dar

In diesem Track wird diskutiert, wie ältere Arbeitnehmer motiviert und qualifiziert werden können, um mit aktuellen Kompetenzen hochwertige Arbeit leisten zu können.

Chaired by

Bernd Foltin BBQ Aalen, Germany

Hartmut Buck Fraunhofer IAO, Germany Herausforderungen des demografischen Wandels für Unternehmen

Dagmar Israel
ATB GmbH Chemnitz, Germany
Volker Braun
BZE-Bildungszentrum GmbH
Erzgebirge, Germany
Arbeitsprozessintegrierte HighTech-Qualifizierung älterer
Beschäftigter

Handwerkskammer Region Stuttgart, Germany Altershomogene firmenübergreifende technische Fortbildung im Rahmen des Modellprojektes IFFA im Raum Stuttgart

Bertram Pelkmann

Information

Target group

Companies, trade associations, chambers of commerce and industry, training providers, research institutes

Conference fee

295 € (including meals, refreshments and conference proceedings) Optional conference diner 40 €.

Location

Institutszentrum Stuttgart der Fraunhofer-Gesellschaft (IZS) Nobelstraße 12 70569 Stuttgart Germany

Organised by

Fraunhofer IAO (FpF Verein zur Förderung produktionstechnischer Forschung e. V. Stuttgart) in cooperation with PROLEARN Network of Excellence in Professional Learning

Cancellation of registration

The registration can be cancelled until October 26th. All later cancellations will affect a full price invoice. The transfer of registration onto another person is possible free of charge at any time.

Information

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Conference website

Conference website with programme and online-registration: www.professional-training-facts.com

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By S-Bahn

By S-Bahn (suburban rail) line S1, S2 or S3 from the main station or line S2 or S3 from the airport as far as Universität (university). Take the exit marked Wohngebiet Schranne-Endelbang/Nobelstraße. There is a 10-minute walk from the train station to the Institutszentrum.

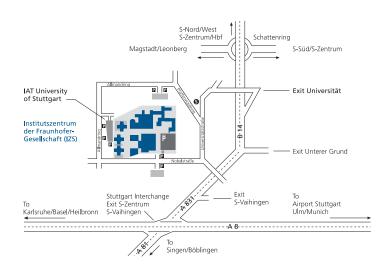
By car

By car via the A8 or A81 motorway; when you reach the Stuttgart interchange (Autobahnkreuz Stuttgart, Stuttgart-Zentrum/S-Vaihingen exit), follow the A831/B14 as far as the Universität exit. You can park in the Institutszentrum's multi-storey car park.

By air

By air to Stuttgart airport. Then take the S-Bahn (suburban rail) line S2 or S3 towards Stuttgart as far as Universität (university). Take the exit marked Wohngebiet Schranne-Endelbang/Nobelstraße. Alternatively, the taxi journey is approximately 16 km.

An electronic access sketch you can find here: www.iao.fraunhofer. de/e/profil/adresse.hbs



RegistrationProfessional Training Facts 2007

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	only at 13th of November 2007 (195 €) only at 14th of November 2007	
	(195 €) Conference dinner at 13th of November, 2007 at 8.00 p.m., costs: 40 €	
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