Centre for Learning Sciences & Technologies
Open Universiteit

CELSTEC annual report 2010
CELSTEC Annual report

The Open University develops and provides open higher distance education. There is a special focus the use of new ICTs and teaching/learning methods to provide effective, efficient, attractive and accessible lifelong learning facilities and education to the Dutch citizens. Within the Open University, expertise in the learning sciences and technology enhanced learning is brought together in the Centre for Learning Sciences & Technologies (CELSTEC).

The mission of CELSTEC is to improve learning and knowledge handling at work, at school, at home and on the move by combining state-of-the-art knowledge in the Learning Sciences with the innovative powers of new Information and Communication Technologies. New technologies and approaches to learning are extensively tested in our laboratories and in practice. The core activities of CELSTEC are research, innovation, education and training.

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Annual report 2010
Preface

The Centre for Learning Sciences and Technologies (CELSTEC) looks back on the year 2010 with satisfaction. This applies both to the Organization itself and to the areas in which CELSTEC is active: research, innovation, education and training. Research in Learning & Cognition, Learning Networks and Learning Media, Innovation, inside and outside the Open University, and the provision of education and training in the Learning Sciences and Technology Enhanced Learning.

An important development for the OU is the launch of the OpenU project which examines a new business model for the OU by integrating digital lifelong learning services, social media, new subscription services, e-learning and open educational resources into its offering. The OpenU project is critical for the ambition of the OU to position itself as a front-runner and 'the place to be' in the field of lifelong learning. CELSTEC has taken the lead in developing and deploying this new approach. In 2010 efforts have been given to innovate our current educational offering to the new model and infrastructure, to create a tighter integration between research and education, to create new free courses and develop the infrastructure and business model.

Memorable events in 2010 include:
Dr. Saskia Brand-Gruwel has been recognised as best PhD supervisor by the Netherlands Educational Research Association (VOR).
Danish Nadeem received the award for best student paper during the IEEE Educion 2010 in Madrid.
Prof. Dr Paul Kirschner has been appointed president of the International Society of the Learning Sciences (ISLS).
Prof. Dr Peter Sloep has been appointed honorary professor in the Caledonian Academy of the Glasgow Caledonian University.
Ludo van Meeuwen, Halszka Jarodzka, Saskia Brand-Gruwel, Jeano de Bock, Paul Kirschner and Jeroen van Merriënboer won the 'Best Poster Award' during the EARLI SIG 6/7 conference for a poster entitled 'Processes Mediating Expertise in Air Traffic Control'.
Liesbeth Kester, Tamara van Gog and Fred Paas won the 'Best Paper Award' for a paper they presented at the EARLI SIG 6/7 conference.
At the 18th International Conference on Computers in Education, CELSTEC PhD student Dirk Börner has been awarded the prize for the best Work in Progress Poster. Dirk won the award for his poster ‘A Conceptual Framework for Ambient Learning Displays’.
José Janssen defended her PhD thesis titled Paving the Way for Lifelong Learning; facilitating competence development through a learning path specification.
Danny Kostons defended his PhD thesis. His research focuses on the question how to help students to acquire self-regulated learning skills.
The TENCompetence project, the largest EU research project that the OU has ever co-ordinated, has finished successfully with a very positive review.

Prof. Dr Rob Koper
Dean of CELSTEC
1 Introduction

The Centre for Learning Sciences and Technologies (CELSTEC) is a Centre of Excellence in the fields of Learning Sciences and Technology Enhanced Learning. The Institute has a leading position nationally and internationally as a research institute. It stands at the heart of the Open Universiteit (OU) and plays a crucial role in the permanent innovation of OU's education and business model.

In addition, CELSTEC is active in the national research foundation (NWO) and EU Research funding initiatives. It has successfully acquired substantial external resources for research and innovation. CELSTEC's agreed targets for CELSTEC are always met or exceeded.

CELSTEC Mission

CELSTEC aims to improve learning and knowledge handling at work, at school, at home and on the move, by combining state-of-the-art knowledge in the Learning Sciences with the innovative powers of new Information and Communication Technologies. New technologies and approaches to learning are extensively tested in our laboratories and in practice.

As a Centre of Excellence, CELSTEC carries out three combined functions:

1. Research. The creation of new knowledge, services and technology (scientific research and technology development);
2. Innovation. Experimenting with new knowledge, services and technology in order to acquire practical experience (pilots, pilot projects, collaboration with knowledge and technology partners and faculties within the OU) and implementing these in and outside the OU. Inside the OU, CELSTEC has a leading role in the IPO programme (Instellingsbreed Programma Onderwijs), a programme that aims to implement new methods and technologies in OU's education.
3. Education, training and dissemination. Sharing of knowledge, services, technology and experience with others through education, training and dissemination activities.

The following sections describe CELSTEC’s activities in each programme.
Annex 1 provides a summary of 2010 press releases.
Annex 2 contains a summary of all CELSTEC staff publications and memberships.
2 Learning & Cognition Programme

2.1 Introduction

The mission of the L&C Programme is to support lifelong learners and groups of learners in acquiring skills, knowledge, and attitudes (i.e. competencies), in transferring those competencies to a variety of settings and in planning, regulating and maintaining their own further learning. This is achieved by uncovering the cognitive processes underlying learning and using the resulting knowledge to develop a comprehensive theory of instructional design and develop and investigate guidelines to inform the design of effective and efficient learning tasks, learning environments, and learning assessments. The Programme is positioned within the field of the learning sciences. This is a broad field with several sub-disciplines, which explicitly encourages a multidisciplinary or even transdisciplinary approach to the study of educational questions, by building on state-of-the-art knowledge in psychology, cognitive science, computer science, and neuroscience. It has four areas of focus (themes), namely:

1. Creating Flexible Environments for Acquiring Complex Cognitive Skills
2. Solving Complex Information Problems
3. Development of Domain-specific Expertise

The programme has a strong focus on use-inspired basic research to provide valuable output for both the practical field of education (practical guidelines, workshops, models, tools, and professional publications) and the international scientific community (publications in high-quality SSCI journals, scientific workshops, participation in international scientific conferences).

The programme advises institutes on educational innovation and organizes workshops, presentations and innovation projects. These institutes include: ROC Leeuwenborg, ROC Arcus College, Freudenthal Institute for Science and Mathematics Education, Avans Hogeschool, STOAS Hogeschool, INHOLLAND Den Haag, Universitat Oberta de Catalunya (Foundation for the Open University of Catalonia, FUOC), CITO/CE, VLHORA, European Patent Office and Hogeschool Utrecht/Technische Bedrijfswetenschappen.

2.2 Cooperation

There are a number of partners with whom the L&C Programme currently collaborates on Research and Open Innovation, and which it provides with Solutions or Education & Training. This list is not exhaustive, but gives an impression of the kind of partnerships in which the Programme is engaged or which might be established in the future.

Teleac/NOT: Teleac/NOT and the Open Universiteit have agreed on strategic co-operation, especially in the area of lifelong learning.

LVNL/NLR/KDC: We work together with the Air Traffic Control of the Netherlands (LVNL), the National Aerospace Laboratory (NLR) and the Knowledge Development Centre main port Schiphol (KDC) on various research projects on the instructional design of training for air traffic controllers.

ROC-A12: Research is conducted in conjunction with this organisation for secondary vocational education in order to redesign their curriculum in the ‘care and welfare’ sector.
Other
In a number of projects CELSTEC supports (primary) teacher training institutes in the re-design of curriculum into a competency-based one. A project with Fontys University for professional education has been successfully concluded with the implementation of the curriculum.
- Philips Healthcare Systems is interested in support for distance deliverable blended education and redesign of training.
- For USEM, a European project that aims to promote the empowerment of end users with disabilities in standardisation activities, a training course has been developed for the project team to promote self-directed distance learning of standardisation concepts for people with disabilities and thus promote participation.
- The Netherlands’ army and marines academy is being supported in the design and implementation of an environment for blended learning.
- AVANS University of professional education in Breda is being helped to teach its teachers to set up and carry out research.
- Cooperation with Ruud de Moor Centre at the Open Universiteit in the design of instruments for workplace learning of teachers in Dutch schools has resulted in the Inspirator environment.
- Accreditation of Belgian universities for professional education in the programmes for tourism and recreation management.
- After successfully providing training to the European Patent Office in 2002, we are now offering the Netherlands Patent Office consultancy and training with a view to the revision of their trainee education.
- The Life Long Learning Limburg project, a re-schooling project and mobility centre running in cooperation with partners from education, industries and provincial government, has approached CELSTEC Solutions, L&C for support in the development of an educational vision for flexible learning.
- Intensified contact with high tech industries or training companies is sought via the Netherlands’ Business Support Office in Frankfurt, Germany, to explore new paths in company training, enabling knowledge workers to develop much-needed new learning methods and learning competencies (Klemke, Hoogveld & de Vries, 2010). These ideas will also be communicated to regional high-tech Dutch industries.
- PRORAIL, the Netherlands’ railway infrastructure company, has requested CELSTEC L&C Solutions to partner it in research and for the training of rail traffic controllers and engine drivers, using eye movement registration techniques.

StOER: CELSTEC’s L&C Programme actively participates in the StOER project, which aims to involve existing contacts and new target groups to form communities of interest in L&C’s research themes, labs and solutions. Topic communities: 4C-ID, Professional development and Solving complex information problems have been set up. More communities will follow.

2.3 National and international links

ITS: This independent institute, connected to the Radboud University in Nijmegen, specialises in social scientific research, policy advice, company research and knowledge transfer, utilising the most modern methods. It has research experience in education, healthcare, labour, mobility and social security.
Psychology Department at Erasmus University Rotterdam (EUR): There exists close research collaboration with the Psychology Department at EUR. Recently, an interlinked research project on ‘Fostering self-monitoring and self-regulation in primary and secondary education’ (2009-2013) was subsidised by NWO/PROO.
Maastricht University (UM): The department of Psychology has been the main supplier of interns and PhD students. In addition, joint research meetings are organised with the department of Education and Development.

Free University of Amsterdam (VU): The Centre for Brain and Learning is a partner within a larger research programme “Learning in a brain and cognition perspective: a large-scale research programme in the Netherlands”.

Open University of Catalonia, eLearn Centre: The chair of the programme was visiting professor at the eLearn Centre of the UOC, an e-learning research, innovation and training centre, focusing on higher education and lifelong learning. Its main objectives are (1) contributing to research and innovation in the use of technologies for learning and training, (2) encouraging best practices in education, based on the use of ICTs to improve teaching and learning processes and (3) encouraging training in e-learning with a range of higher education.

Knowledge Media Research Center, Tübingen, Germany: Knowledge acquisition, exchange and communication within innovative technologies are the core research at the Knowledge Media Research Center in Tübingen, Germany.

Learning Systems Institute, Florida State University, USA: The Learning Systems Institute maintains project-based teams led by FSU faculty and graduate students with a wide range of experience in many varied disciplines. These multidisciplinary teams develop robust solutions using systems approaches to the planning, design, evaluation, and improvement of instruction, learning, and human performance.

School of Education, University of New South Wales, Australia: A number of staff have been invited several times for stays to strengthen the research collaboration on "cognitive load theory and instructional design" between the OU and UNSW.

2.4 Output/Awards

The output of the research programme is at a stable high level. The target for academic publications is set at 2.5 scientific publications recognised by the ICO per FTE for staff members and one publication per year for doctoral students (where the thesis also counts as a publication). An input of 19 FTE research capacity delivers an output of 64 scientific publications, exceeding the target. The annex contains an overview of scientific output.

Schematic representation of output in recent years:

Paper award
Liesbeth Kester, Tamara van Gog and Fred Paas won the ‘Best Paper Award’ for a paper they presented at the EARLI SIG 6/7 conference.
Poster award
Ludo van Meeuwen, Halszka Jarodzka, Saskia Brand-Gruwel, Jeano de Bock, Paul Kirschner and Jeroen van Merriënboer won the ‘Best Poster Award’ during the EARLI SIG 6/7 conference. Title of the poster was: ‘Processes Mediating Expertise in Air Traffic Control’.

PhD-supervisor
Saskia Brand-Gruwel has been recognised as best PhD supervisor by the Netherlands Educational Research Association (VOR).
3 Learning Networks Programme

3.1 Introduction

The Learning Networks Programme focuses on online social networks that have been designed specifically to facilitate non-formal learning. The central idea of the programme is that today’s professionals cannot afford to stop learning after graduation; they should carry on learning continuously throughout their professional lives. However, traditional forms of learning are not convenient for busy professionals faced with many and varying obligations. First, they need logistic flexibility which allows them to learn wherever and whenever they want, as well as to take charge of their learning themselves. Second, they are not so much interested in set degree programmes, but rather in relatively small learning events that address exactly their specific problem at the right level of complexity and in the right sized chunks (content flexibility). A Learning Network is designed to be an environment that provides these forms of flexibility. It does so by bringing together people with overlapping interests and a shared need and willingness to learn. Learning (professional development) takes place by accessing relevant resources. Among these the Learning Network’s fellow participants feature large, as primary sources of expertise and as providers of all kinds of support. The network is thus constituted by its participants, who are supported through a variety of different online tools. The tools guarantee that the network is an adequate environment for learning, that it has continuity, that it has memory, that it fulfils its role of a meeting place. Over time, a Learning Network should become a dynamic collection of communities, that individually wax and wane, come to overlap and drift apart in a way that reflects the participants’ needs and wants. In such a community professional development (learning) and being professionally active have become two sides of the same coin.

The programme is funded by the home institution, by European project funds (mainly Framework 7 and Lifelong Learning Programme) and a variety of third parties.

European projects
- Tooling of and training for collaborative, distributed product innovation (idSpace), FP7, ended March 2010
- mPSS, Lifelong Learning Programme, Leonardo
- Learning Technologies for Lifelong Learning (LTfLL), FP7
- Strengthening the IST Research Capacity of Sofia University (SISTER), FP7
- Internet-based Performance-Centred Learning Environment for Curriculum Support (iPlecs), Lifelong Learning Programme
- Improving the Continuity of Patient Care through Identification and Implementation of Novel Patient Handover Processes in Europe (Handover), FP7
- Online CEF-based assessment of oral proficiency for intercultural professional communication (CEFCULT), LLLP
- Teachers’ Lifelong Learning Networks (TeLLnet), LLP
- A Data Set Framework for Recommender Systems in Technology Enhanced Learning (DATATEL), FP7, via STELLAR.

Other projects (major projects only)
- OERNED, Ministry of Education, Culture and Science; Library School, Vereniging Openbare Bibliotheeken; Biebrkracht, Gelderland provincial libraries; Zorgacademie, regional collaboration; Einstein, collaboration with Koning Willem 1 College; Servicecentrum Lifelong Learning Limburg, regional collaboration.
The programme advises institutes on educational innovation and organizes workshops, presentations and innovation projects. Institutes include Vereniging Openbare Bibliotheeken, SVOPL, Hogeschool Zuyd, Biblioservice Gelderland, Erasmushogeschool Brussel, Saxion Academie Ruimtelijke Ontwikkeling en Bouw, EuroPACE ivzw, ROC Zoetermeer, SGB, The Open University of Tanzania, Grotiuscollege Heerlen, Netwerk Elos Scholen Nederland, KATHO Tielt, ROC Twente and Hogeschool Utrecht/Technische Bedrijfスキ."}

### 3.2 Cooperation/internationalization

The programme collaborates with many university partners: Caledonian Academy, Glasgow Caledonian University, Glasgow, UK (project proposals, Caledonian Academy), Online PhD programme TEL, University of Lancaster, Lancaster UK (project proposals, graduate school), Knowledge Media Institute, Open University, Milton Keynes, UK (EU project proposals, projects), Computer Science Department, RWTH Aachen (EU project), University of Salamanca, Spain (tutoring for master programme and summer school on social software), Open University Catalonia, Barcelona, Spain (EU project proposal, EU project), University of Piraeus (EU project, EU project proposal; special journal issue), University of Aalborg, Computer Science (EU project), University of Plovdiv, Bulgaria (EU project), University of Hildesheim, Germany (EU project), University of Cyprus, Nicosia, Cyprus (EU project), Sofia University (EU project), Utrecht University, Utrecht, Netherlands (EU project), Eberhard Karls Universität Tübingen, Germany (EU project), Wirtschaftsuniversität, Vienna, Austria (EU-project), Politehnica Bucharest, Romania (EU-project), University of Manchester, UK (EU project), Autonomous University of Barcelona (EU project), University of Birmingham (EU project), Radboud University, Nijmegen, Netherlands (EU project), Karolinska Institutet, Stockholm, Sweden (EU project), University Leuven, Belgium, University of Graz, Austria (EU project).

### 3.3 SIKS

All but two of the PhD candidates in the programme are fellows of the national SIKS (School for Information and Knowledge Systems) research school (the remaining two are fellows of two other schools). SIKS organises the PhD candidates’ educational programmes. In addition to this, it acts as a clearing house for all kinds of meetings, seminars, etc. conducted by SIKS participating universities.

### 3.4 Mid-term Review

In 2010, a mid-term review was conducted to assess the programme’s health from a research point of view. Although not obligatory, the KNAW (Royal Netherlands Academy of Arts and Sciences) strongly advises all research programmes that are periodically assessed by them to conduct such a review. The review covered the period 2007-2009 and was published in 2010. In late 2009 a SWOT analysis was conducted with the programme staff to assess the programme’s strengths and weaknesses as well as to spark off a discussion of opportunities and threats. The assessment committee’s recommendations on quality, productivity, relevance and viability were revisited and translated into actions for the future.
**RPL**

Last year, Zuyd University RPL (recognition of prior learning) assessors were again assessed by CELSTEC. Under this procedure each RPL assessor is assessed by two reviewers, while the RPL assessor assesses the portfolio, prepares an assessment interview, conducts the interview with the candidate, and then drafts a report. To obtain a certificate as an RPL assessor applicants must follow the Hogeschool Zuyd’s basic training and must have been involved at least three times in the assessment of an RPL candidate. In total 22 reviews of RPL assessors have been carried out. 18 of these assessments resulted in the award of a certificate. Performance in the remaining four did not meet the standards required for certification. As of this year, reviews of RPL assessors will be conducted by teams of two evaluators, one from CELSTEC and one from the Hogeschool Zuyd. The following CELSTEC staff have conducted reviews: Dr. O. Firssova, Dr. D. Joosten-ten Brinke, Dr. M. van der Klink. From the Hogeschool Zuyd, J. Pörteners, B. Jorritsma and Mrs. I. Sijstermans have taken part.

### 3.4 Output/Awards

Of the total capacity of approximately 26 FTE, research capacity stands at 22 FTE, 6 FTE of which is provided by PhD students. The target for research output is set at three academic publications recognised by SIKS per FTE staff member (40% of a full appointment is deemed to be available for research) and at one publication per year for doctoral students (where the thesis also counts as publication).

In the reporting year 9 academic publications, 11 professional publications, 20 publications in conference proceedings and one thesis were published. In addition, two books were published, and two chapters contributed to books. In the coming year we intend to maintain the number of doctoral students.

The programme also publishes source code (1), specifications for open standards (1) and technical reports (21). It provided a total of 59 presentations at workshops, conferences and symposia.

Schematic representation of output in recent years:
Paper award
Danish Nadeem received the award for best student paper during the IEEE Educon 2010 in Madrid.
4 Learning Media Programme

4.1 Introduction

The goal of the Learning Media Programme is to establish innovative, challenging and pervasive ways of learning and teaching that exploit the opportunities of emerging digital media, media technologies and devices, which include broadband internet and mobile network technologies as well as user-generated content and a variety of new portable communication devices. It covers three research themes: 1) Immersive media: here the virtual environment is dominant over the material environment. The theme covers serious games, simulations and virtual worlds. 2) Mobile media: these cover ubiquitous and cross media access, and the contextualisation of media in real world environments. 3) Social media refer to emerging platforms and services that allow users to publish, share, adjust and annotate content.

In 2010 the Learning Media Programme participated in various externally funded projects. The Icoper project (Interoperable Content for Performance in a Competency-driven Society) made contributions to learning technology standards analysis and experimental learning designs, in particular game-based learning scenarios. The Share.TEC project (SHAring digital REsources in the Teaching Education Community) involved harvesting, infrastructure prototyping and testing for opening up European teacher training materials repositories. In the Grapple project (Generic Responsive Adaptive Personalized Learning Environment) various adaptivity scenarios were tested experimentally and evaluated. In the Openscout project (Skill-based scouting of open content for management education and training) the Learning Media Programme contributed to the design of competence services. In the STELLAR project various networking activities were arranged for establishing a sustaining Technology Enhanced Learning community in Europe. By the end of 2010 the GaLA project (Games and Learning Association) had begun its four-year challenge of aligning European research on serious games. The cooperation project with the University of Highlands and Islands (UHI) was successfully completed at the end of the year. The work involved IT usability surveys, the development of user metrics for quality assurance of IT services and the redesign of the user interface of video conferencing tools. At the national level grassroots projects in serious gaming and mobile learning were carried out. The SURF project Skills Labs (serious gaming) funded on behalf of the National Action Plan e-Learning was completed in the course of the year. In September the Basic Life Support started. The project involves the development of an online multimedia course in first aid. It is fully sponsored by the local authorities (Province of Limburg). In 2010 three internal PhD projects were operational: 1) Game learning patterns in mixed reality, 2) Meta-learning prompters in self-regulated learning, and 3) Ambient learning displays - distributed mixed reality information mash-ups to support ubiquitous learning. Also one external PhD-student was involved with the Learning Media Programme: Didactic Design Patterns for Digital Game Based Learning applications.

The programme advises institutes in educational innovation and organizes workshops, presentations and innovation projects. Institutes include CEN (Comité Européen de Normalisation), UHI Millennium Institute, Talant, Humance AG, SURFnet BV.
4.2 Internationalization

In the second year since its launch the Learning Media programme has continued to extend its external network by participation in various European projects. The CELSTEC lab environment was also frequently used for sessions with external visitors. CELSTEC is also involved in a new 7th Framework Programme project, GaLA, which aims to build a Serious Games research network of excellence.

4.3 Output/awards

In the reporting year 8 academic publications, 10 professional publications and 13 publications in conference proceedings were published. The programme also publishes source code (3) and technical reports (31). It provided a total of 42 presentations at workshops, conferences and symposia.

Schematic representation of the output of recent years:

**Learning Media**

- Scientific publications (articles, conference papers and book chapters)
- Professional publications
- Congress contributions / miscellaneous
- Technical reports / deliverables
- Software / specifications
- Books

**Award**

Dirk Börner won the prize for the best Work in Progress Poster for his poster ‘A conceptual Framework for Ambient Learning Displays’ at the 18th International Conference on Computers in Education.
5 Institute for Education and Training

5.1 Introduction

CELSTEC as an institute develops new knowledge in the domains of Learning and Cognition, Learning Media and Learning Networks. This new knowledge focuses on theories, guidelines, procedures, technologies and services. The task of the Institute for Education and Training (E&TI) of CELSTEC is to develop, organise and deliver education and training courses and programmes that can help students at various levels of background knowledge who need to build further expertise in those domains. In 2010 the E&TI started its second six-year planning cycle, based on an analysis of the developments in the field, a reflection on the structure, processes and experiences so far (brought together in the ‘Zelfstudie’) and on the outcomes of a mid-term review. E&TI offers one MSc programme in Learning Sciences (60099) focusing on research and design competencies and teaching these competences within an academic master’s programme. A large number of its students work in education (primary, general and vocational secondary education, and universities of applied sciences). Furthermore, it offers a bridging programme for applicants who do not have an academic bachelor’s degree in the learning sciences. Several of the courses that make up these programmes can also be taken as electives in other OU studies, or as independent courses. Finally, E&TI offers short courses and one-day conferences.

Staff expertise is a precondition for all activities carried out by E&TI. Without staff who represent the right mix of content, pedagogic and didactic skills, the raison d’être of E&TI – the quality of teaching - cannot be assured. E&TI’s internal strategy for staff quality is to require all academic faculties to develop the basic qualification for instruction. Recently it has been recognized that this strategy is insufficient to meet CELSTEC’s E&TI aims fully.

5.2 New courses and revised courses

The MSc Learning Sciences programme has been designed using principles of competence-based education and distance education; it focuses on research and design skills. The development of academic skills, such as academic thinking and writing, is considered of paramount importance. This is achieved through a series of courses in which students work individually on meaningful learning tasks. These tasks are delivered using an electronic learning environment. Using this environment, students can communicate with peers, upload their assignments and receive feedback from their teachers and peers.

Our MSc programme has now been running for six years. The recommendations of the review committee (see 5.6), students and teachers, the increase in the numbers of students and new insights in educational issues such as the use of a portfolio have persuaded us to re-design the programme. The main aims of the re-design are: 1) to improve the course to reduce study time, 2) to decrease work load of teachers providing student support, 3) to increase student engagement, 4) to fine-tune the content of the different courses, and 5) to improve admittance procedures.

In 2010 the first round of revisions took place. New and revised courses were:

- O31421 Current Trends and Issues
- O30421 Research Methods for Educational Design
- O22421 Approaches, Strategies and Methods for Educational Design
• O27411 Educational Research; Methodology
• O32441 Designing a Research Plan; Master Thesis Preparation

In 2011 the second round will take place and after these revisions the new curriculum will be introduced in September 2011. In 2010 additional projects were also launched with a view to re-designing the master’s programme. The role of the mentor is under reconsideration and new procedures have been put in place. Furthermore, a pilot project aiming at supporting students in making a study plan and guiding them through the first courses was started and will be evaluated in the first months of 2011 (see 5.6).

5.3 Enrolments

Last year 995 courses were taken by students on the bridging or master’s programme. These numbers were distributed as follows:

O17311 Learning Science: 176;
O18321 Learning and Development: 168;
O34211 Research Practical Educational Research: 61;
O20431 Professional and Problem Areas: 184;
O21421 Theoretical Frameworks and Backgrounds of Educational Design: 96;
O22411/21 Approaches, Strategies and Methods for Educational Design: 66;
O23411 Instructional Design: 15;
O24411 Learning and Competency development: 10;
O25411 Quality Assurance in Education: 17;
O27411 Educational Research: Methodology: 4;
O28421 E-learning: what, why and how: 53;
O30411/21 Research Methods for Educational Design: 30;
O31411/21 Current Trends and Issues: 34;
O35411/21 Project Learning Sciences: 33;
O41411 Implementation of Educational Innovations: 14;
O42411 Evaluation of Educational Innovations: 4;
O43411 Advanced Studies in Learning Sciences 1: 5;
O32431/41 Designing a Research Plan; Master Thesis Preparation: 15;

Schematic representation of the module sales 2006/2010:

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module sales 2006-2010

year
2006 2007 2008 2009 2010
marketing
0 200 400 600 800 1000 1200
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module sales
Furthermore, there were 451 courses completed with a certificate in 2010.

27 students have signed up for the Certified Professional Programme in Educational Design. In 2010, 9 students completed the programme and received a diploma.

5.4 Cooperation/Internationalization

The bridging programme is offered in cooperation with the Faculties of Psychology (methodology and statistics) and Cultural Sciences (philosophy).

E&TI works together with Iselinge Hogeschool to deliver an academic teacher-training programme. The backbone of the programme is the academic bridging programme; a jointly-developed curriculum integrates this bridging programme. Students take three courses a year. Their task is not only to pass the exams but also to use their new skills in projects in which the whole class participates. Apart from the OU support that is embedded in the courses, the group is supported by an Iselinge faculty member. This year the second cohort has started.

Apart from Iselinge, E&TI also works together with other universities, including universities of applied sciences, in the area of students’ master thesis research. Examples are Hogeschool de Kempel, Fontys Hogeschool and Hogeschool Edith Stein/OCT, Hengelo.

With KPCgroep – a consultancy company - and Koning Willem 1 College – a college for vocational education - E&TI participates in a project to explore and define an HRM structure, which integrates formal professional development and career opportunities for teachers.

5.5 Research

Research in the E&TI can be viewed from different perspectives.

1) The relation between research and (academic) master’s programmes. This research is conducted through CELSTEC research programmes. For the academic world, the involvement of students in research is the means to transfer academic skills and attitudes as well as to bring students in contact with the frontiers of science. E&TI does this by creating Capita Selecta courses in these domains and offering students the opportunity to complete their master’s thesis in association with this programmed research. In 2010 5 students have enrolled on such a Capita Selecta course, while 15 students started work on a thesis in a CELSTEC domain; 8 students completed such theses.

2) Research conducted by students as part of of their educational programme. E&TI tries to strike a balance between students’ own interests (often fuelled by the interests of their employers) and the areas of expertise of CELSTEC staff. Where possible cooperation with other institutes is sought (see 5.4). One student completed a thesis in conjunction with the Kempel-lectoraat (Hogeschool De Kempel).

3) Research conducted within the context of educational development and design. As E&TI develops and tests new formats for web-based training, small-scale studies are carried out to investigate the added value of these methods. This research is mainly design-based.
5.6 Mid-term Review

The mid-term review of the MSc programme Learning Sciences took place in March 2010. It yielded the following conclusions and recommendations. These recommendations have been integrated in the Strategy report 2010-2016. They related to two larger clusters of advice and a couple of unrelated issues.

1. Create continuity for the students. OU curricula, with their modular structure, require extra attention to compensate for the drawbacks of that structure. Special measures are required to create consistency and monitor knowledge and skills growth over courses that can be taken in a flexible order.

2. Moderate the division between teaching and learning, teacher and student, service provider and service consumer. This distinction is a consequence of the OU educational philosophy that sees education at a distance as time, pace and place independent study and which permeates all OU services, structures, data-bases and regulations. However it positions all responsibility for student progress with the students and disregards the fact that social and academic integration is a precondition for student success. Steps have been taken regarding mentoring, planning support, and integration and support of students in the bridging programme. Increased use of (virtual) face-to-face contact was another initiative.

3. The three remaining issues – library facilities, bridging programme and internationalisation – are unrelated to these aspects. Library facilities, though only under very indirect control of CELSTEC, have considerably improved in the last year. The integration of OU and Maastricht University libraries and the most recent contract with publishers provides better facilities and support for students. By the end of 2009 the problems had been solved and library facilities are no longer considered an issue. The bridging programme must become more integrated with the needs of the Learning Sciences programme. As a first step, assignments have designed to address Learning Sciences problems in one course.

Internationalization has not been prioritised in 2010.

5.2 Graduates

2007

2008

2009
Cnossen MSc, Y. (2009, 26 oktober). *Bevorderen van Zelfgestuurd Leren in een Competentiegerichte Leeromgeving*.

Besselink MSc, E. (2009, 26 oktober). *Effect van Sociale Verbondenheid op de Motivatie en de Prestatie door Gebruik van een Weblog*.

2010


Rotteveel-Wagenaar, M. (2010, 7 maart). *Weer Aan de Studie...en Dan? Back to University...What to Do Next*?


Wienen, B. (2010, 3 september). *Informeel leren op de werkplek door jeugdzorgprofessional*.


### 5.7 Output/awards

One academic and two professional publications were issued during the report year. Two presentations were also given at workshops, conferences or symposia.
6 Contributions to internal Open Universiteit projects

Since 2007, educational innovation at the Open Universiteit has been organised in an institution-wide programme, the Instellingsbreed Programma Onderwijs (IPO). CELSTEC is a major contributor, with approximately 10 FTE posts, and works closely with other parts of the organisation. Its contributions relate to a number of priority projects: modernising the electronic learning environment, solutions for online support, student assessments, introduction of the basic qualification for instruction, multimedia development, recognition of prior learning, upgrading the online testing system and work processes for the development of digital learning materials.

In November 2008 the OER (Open Educational Resources) taskforce delivered a report setting out an OER strategy for the Open Universiteit. This plan, known as OpenU, supports the core of the Open Universiteit’s strategy to position itself as a leader in OER by making part of its materials, publications and tools freely available to interested parties. By offering some of its materials free of charge and by making all its materials accessible at a low rate, the Open Universiteit aims to consolidate its position as the ‘spider in the web’ for lifelong learning and to reach out to new target groups. The Open Universiteit also hopes to strengthen the bond with its students by offering new products and new services, and by making use of new forms of registration. The overall purpose of OpenU is the generation of additional income by attracting more students, interesting other target groups in our work and increasing our appeal to lifelong learners.

The Executive Board has asked CELSTEC to lead and expand the OpenU project. A start was made in 2009, and the CELSTEC contribution to this project rose to some 7 FTE in 2010.

CELSTEC is also involved in OU-wide projects and programmes such as Wikiwijs, OERNED and NeLLL.
7 Organization

The CELSTEC organization chart:

![Organisation Diagram CELSTEC]

7.1 CELSTEC Management team

CELSTEC is headed by a management team. In 2010 this team met around once a month. Issues concerning CELSTEC generally, personnel policy and operations are standard on the agenda. Plans for the individual CELSTEC programmes and project plans are approved in advance by the management team.

Management team composition at 1 January 2010:
Prof. Dr Rob Koper, dean of CELSTEC
Dr. Jo Boon, human resource manager
Dhr. Jos van den Broek, director of operations.

The substantive aspects of CELSTEC programmes are guided by a programme director:
Prof. Dr Paul Kirschner, Learning & Cognition
Prof. Dr Peter Sloep, Learning Networks
Dr. Wim Westera, Learning Media
Prof. Dr Els Boshuizen, Institute for Education and Training.

7.2 Staffing

CELSTEC does not have sections for the different areas of work, but a single group of professionals.

Concerted programmes and project plans for the various areas of work are periodically drawn up, and are staffed from the department as a whole.
The Institute also has an administrative-organisational support unit. Total staff numbers currently stand at around 100.

The following staff left CELSTEC in 2010: Steinn Sigurdarson, Tim de Jong, Sabine Heiligers-Maassen, Danish Nadeem and Danny Kostons.

The following staff joined in 2010: Kim Dirkx, Milou de Smet, Renate de Groot, Johan van Strien, Halszka Jarodzka, Christa van Mierlo and Martin van Dijk.

The table below shows the change in staff numbers from December 2009 to December 2010.

<table>
<thead>
<tr>
<th>Staff numbers (UFO definitions)</th>
<th>31-12-2009 FTE</th>
<th>31-12-2009 persons</th>
<th>31-12-2010 FTE</th>
<th>31-12-2010 persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>5.0</td>
<td>5</td>
<td>6.0</td>
<td>6</td>
</tr>
<tr>
<td>Director of operations</td>
<td>1.0</td>
<td>1</td>
<td>1.0</td>
<td>1</td>
</tr>
<tr>
<td>Departmental head/UHD</td>
<td>0.4</td>
<td>1</td>
<td>0.4</td>
<td>1</td>
</tr>
<tr>
<td>UHD</td>
<td>7.1</td>
<td>8</td>
<td>7.0</td>
<td>8</td>
</tr>
<tr>
<td>UD</td>
<td>31.8</td>
<td>37</td>
<td>32.7</td>
<td>38</td>
</tr>
<tr>
<td>Doctoral students</td>
<td>14.0</td>
<td>14</td>
<td>15.4</td>
<td>16</td>
</tr>
<tr>
<td>Researcher</td>
<td>9</td>
<td>10</td>
<td>7.5</td>
<td>9</td>
</tr>
<tr>
<td>Project manager</td>
<td>2.6</td>
<td>3</td>
<td>2.6</td>
<td>3</td>
</tr>
<tr>
<td>Education coordinator</td>
<td>1.0</td>
<td>1</td>
<td>1.0</td>
<td>1</td>
</tr>
<tr>
<td>ICT developer</td>
<td>6.8</td>
<td>7</td>
<td>5.8</td>
<td>6</td>
</tr>
<tr>
<td>ICT management</td>
<td>2.0</td>
<td>2</td>
<td>2.0</td>
<td>2</td>
</tr>
<tr>
<td>Education/research</td>
<td>1.8</td>
<td>2</td>
<td>1.8</td>
<td>2</td>
</tr>
<tr>
<td>Admin-visual techniques</td>
<td>0.6</td>
<td>1</td>
<td>0.6</td>
<td>1</td>
</tr>
<tr>
<td>Admin process</td>
<td>1.0</td>
<td>1</td>
<td>1.0</td>
<td>1</td>
</tr>
<tr>
<td>Administrator</td>
<td>2.2</td>
<td>3</td>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>Administrative staff</td>
<td>1.7</td>
<td>2</td>
<td>1.7</td>
<td>2</td>
</tr>
<tr>
<td>Secretarial</td>
<td>5.8</td>
<td>7</td>
<td>4.3</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>93.8</strong></td>
<td><strong>105</strong></td>
<td><strong>92.3</strong></td>
<td><strong>105</strong></td>
</tr>
</tbody>
</table>

7.2.1 Interns

Tammy Pagen held an internship between 6 September and 16 December.

7.2.2 Time tracking/OUpas

In 2010 it appears that employees made consistent use of time tracking, and that this provides a good indication of input at project and programme level. Time tracking also offers a sound basis for (external) project accountability.

7.2.3 Absence through illness

Sickness absence within CELSTEC has been relatively low in recent years, always below 3%, and this has continued in the reporting year. This success is due to the departmental policy in this area to which the role of the organisation’s medical officer, and the manner in which it is carried out, make an important contribution. Both short-term absenteeism and the number of long-term sick have been substantially reduced by this policy.
7.2.4 Male and female staff numbers (academic/support)

<table>
<thead>
<tr>
<th>Number of CELSTEC staff at 31 December 2010</th>
<th>in persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>age</td>
<td>&lt; 30</td>
</tr>
<tr>
<td>men</td>
<td>5</td>
</tr>
<tr>
<td>women</td>
<td>7</td>
</tr>
<tr>
<td>total</td>
<td>12</td>
</tr>
</tbody>
</table>

7.3 Administration & Support unit (A&S unit)

The A&S unit provides services to the Dean of CELSTEC, CELSTEC programmes and the academic staff. It offers support by handling the business operations, internal and external communications, Human Resource Management and facility management. The unit also coordinates several services handled by other OU departments for CELSTEC. The unit is also responsible for the information which supports the business processes and control within CELSTEC.

A&S unit services include:
Administrative support for European projects. At the end of 2010 there were 17 EU projects, three of which were coordinated by CELSTEC. The unit also gave support with the submission of various EU proposals.

The unit takes care of the administration of a number of OU-wide programmes and initiatives, such as IPO, NeLLL and OpenU.

In 2010 the operational staff have also been involved in the organisation of conferences:
28 May, Mini-conference on ‘Learning for and through work’, Eindhoven study centre.
15 October, Conference on ‘Searching for information on the web’, Utrecht study centre.

In addition, the unit made major contributions to various OU-wide business process initiatives (particularly the allocation model, improving internal information services), various procurement services and the further development of OUPAS.

At the end of 2010 the unit employed 12.3 FTE, of which 2.4 FTE were financed by third parties (funds from independent public organisations and project-linked financing).
Annex 1 Archive 2011 CELSTEC.org

Training scientific writing for CELSTEC PhD’s – Jan 2010
The first months of 2010 NeLLL (the Netherlands Laboratory for Lifelong Learning) organises again workshops Academic writing and academic presentation for the PhD’s of CELSTEC and the rest of OUNL.

Social software in veterinary medicine – 12 Jan 2010
The 22nd of January 2010 CELSTEC’s Marco Kalz will moderate a workshop on Informal learning and the use of social software in veterinary medicine. He will focus on Personal Learning Environments (PLE). The workshop is organised by the NOVICE project. NOVICE stands for Network of Veterinary ICT in education.

New on CELSTEC staff: Kim Dirkx – 14 Jan 2010
Kim Dirkx has joined CELSTEC staff. As a PhD student for the Learning & Cognition Programme.

Symposium 4C-ID: Flexible application of the principles of the 4C-ID model – 14 Jan 2010
Friday March 5th 2010 CELSTEC organises for the third time a symposium for (future) users of the 4C-ID model. The symposium will be held in the study centre of the Open Universiteit Nederland in Utrecht. The language of the symposium is Dutch.

CELSTEC participates in Executive Board Meeting on Education and ICT – 15 Jan 2010
On 14 January 2010 prof. dr Paul Kirschner, program director Learning & Cognition at CELSTEC of the Open Universiteit, participated in an Executive Board meeting on Education and ICT, organized by the management magazine TeleCom Update. A report on the meeting will appear in TeleCom Update.

MACE project successfully concluded – 19 Jan 2010
MACE stands for Metadata for Architectural Contents in Europe. The MACE project team developed an internet based information system that links up major international architectural archives with data records about completed and presently planned construction projects. The European Commission supported this initiative from 1 September 2006 to 31 August 2009 in the eContentplus programme.
CELSTEC en Biebkracht CoP – 21 Jan 2010
On January 15th 2010, Biebkracht was launched. Biebkracht is a learning network of the public libraries of Gelderland, a province of the Netherlands. In the network the libraries of Gelderland and Bibloservice Gelderland collaborate in order to share knowledge and to develop the libraries.

CELSTEC’s Peter Sloep consulted by standaardisatieforum – 25 Jan 2010
January 18th 2010 CELSTEC’s prof. dr Peter Sloep was consulted as an expert by the ‘standaardisatieforum’. This forum is an important advisor of the ‘standaardisatiecollege’ of the Dutch government. This college decides which standards are included in the lists of standards supported by the government.

Meet CELSTEC at LearnTec 2010 – 25 Jan 2010
From 2 till 4 February 2010 the 18th LearnTec conference takes place in Karlsruhe (Germany). CELSTEC will be present with presentations and demonstrations of tools and solutions developed by CELSTEC. LearnTec is an international conference and exhibition for professional education, learning and IT. You’ll find CELSTEC in the Dutch Pavilion in the exhibition hall.

NetWerkTafel Serious Gaming a success – 26 Jan 2010
Tuesday 19 January 2010 SURFfoundation organised in collaboration with CELSTEC and the SIG Serious Gaming a ‘network table’. Representatives from education and industry explored the possibilities for further development of methods, tools and examples in the field of serious gaming, taking CELSTEC’s EMERGO as point of departure.

Collaboration between Sintermeerten College and CELSTEC – 26 Jan 2010
Sintermeerten College (secondary education) and the Open Universiteit are neighbours. Tuesday 19 Januar 2010 students of Sintermeerten college (5th year) visited the Medialab of CELSTEC. De aim of the meeting was to get to know eachother and to see if a it is possible to let students of Sintermeerten College collaborate with the Medialab team in projects.

Vacancy: PhD-researcher in Educational Science – 28 Jan 2010
At CELSTEC’s Learning and Cognition programme there’s a vacancy for a PhD researcher. One of the research lines of the programme concerns the involved processes in Information Problem Solving (IPS) and the way instruction can be designed to foster students’ IPS processes. This PhD-project is positioned in this line of research.
E-xcellence: the quality of e-learning – 28 Jan 2010
In 2009 the E-xcellence project ended. This three-year project developed procedures and instruments with which universities can benchmark the quality of their e-learning and formulate plans for improvement. In this European project that started end of 2006, the Dutch Open Universiteit (CELSTEC) worked with a group of European partners.

Rob Koper and Paul Kirschner consulted by national committee – 1 Feb 2010
The Dutch minister of Education has appointed a committee to draw up a national plan for the future of the educational sciences. This week CELSTEC’s prof. dr Rob Koper and prof. dr Paul Kirschner are invited for a meeting with the committee.

Books of courses on Open Source Software online (for free) – 1 Feb 2010
The Free Technology Academy (FTA) has published the first set of course books online: ‘Introduction to Free Software’ and ‘The GNU/Linux Advanced Administration’. The FTA, a European consortium that the Open Universiteit is part of, has published the books under a free, copyleft license.

CELSTEC at Winterschool in Innsbruck – 1 Feb 2010
A number of CELSTEC staff contribute to the JTEL Winterschool on Advanced Learning Technologies that takes place in Innsbruck from 1 to 5 of February 2010. The JTEL Winter School brings interdisciplinary doctoral researchers together in order to provide intense research training and to foster cross-domain collaboration.

OUNL’s Study Coach finalist for the Learning Impact Award (LIA) – 2 Feb 2010
The Study Coach application of the Open Universiteit has been selected for the final round of the Learning Impact Award (LIA) 2010 van het IMS Global Learning Consortium. The Study Coach application is developed by the Onderwijs Service Centre of the OUNL. Henk van den Brink and Ruud Hoefakker of CELSTEC took part in the development of the application and the audiovisual content.

Open Universiteit on iTunes U – 2 Feb 2010
2nd of February 2010 the Dutch Open Universiteit and the Delft University of Technology launched their iTunes U portals at the e-learning congress in Eindhoven. These are the first Dutch universities to use iTunes U as a platform to distribute knowledge.
Dutch ambassador visits CELSTEC at LearnTEC – 2 Feb 2010
Today at LearnTEC 2010 the Dutch ambassador in Germany, mr Marnix Krop, visited the CELSTEC booth. Mr Krop was accompanied by the honorary consul in Baden-Württemberg, de heer Willem van Agtmael, and the technical-scientific counsel of the Dutch embassy in Berlin, mr Wout van Wijngaarden.

Paul Kirschner keynote speaker at Euro-CAT-CSCL – 5 Feb 2010
On the 6th of February prof. dr Paul Kirschner is keynote speaker at Euro-CAT-CSCL workshop called Group awareness in knowledge convergence and activity organization in CSCL.

Open Universiteit co-organises Open Ed 2010 – 9 Feb 2010
November 2-4 2010, the Dutch Open Universiteit, the Open University of Catalunya, and the David O. McKay School of Education at Brigham Young University jointly organize the Open Ed 2010.

CELSTEC workshop during HOR conference – 11 Feb 2010
On 9 February 2010 CELSTEC offered a workshop at the Hoger Onderwijs Reeks Jubileum conference in Amersfoort. Theme of the conference was ‘Inspire to learn’ and the CELSTEC workshop aimed to make teachers more capable of dealing with information.

In February 2010 the book Word informatievaardig! (Become information skilled!) appeared at Noordhoff Publishers. Authors are Saskia Brand-Gruwel and Iwan Wopereis, both researchers at CELSTEC. The book is in Dutch.

Students give Masterprogramme Learning Sciences good grades – 25 Feb 2010
In the ranking of masterprogrammes in the field of Learning Sciences, the MSc programme of CELSTEC takes the second place after the programme of the Universiteit Twente. This concludes the Keuzegids Masters 2010, an independent publication based on student and expert judgments of the five Dutch programmes in this field.
Nieuwe ronde lerarenbeurs – 1 Mar 2010
Van 1 april tot 13 mei 2010 kunnen leraren een beurs aanvragen om Onderwijswetenschappen te gaan studeren bij de Open Universiteit Nederland. Deze masteropleiding wordt aangeboden door CELSTEC.

Saskia Brand: lecture on information skills – 2 Mar 2010
Thursday March 4th 2010 dr. Saskia Brand-Gruwel gives a lecture at a minisymposium on Information skills at the Learning-and Innovation Centre (LIC) in Den Bosch. The lecture (and the continuation of this news item) is in Dutch.

Miniconference: Learning for and on the job – 3 Mar 2010
28 May 2010 in study centre Eindhoven the next miniconference of the Master programma Learning Sciences takes place. This time the theme is Learning for and on the job. The miniconference is Dutch as is the continuation of this item.

Vacancy: post-doctoral researcher (0,8 fte for two years) – 4 Mar 2010
CELSTEC's Learning and Cognition programme is looking for a postdoctoral researcher to carry out the research project Sex differences in navigation through hypertext learning environments.

Third symposium for users of the 4C-ID model – 4 Mar 2010
Friday 5 March 2010 the Centre for Learning Sciences and Technologies (CELSTEC) organizes for the third time a symposium for (future) users of the 4C-ID model. With over 60 registrations, the maximum number of participants has been reached.

Successful conclusion of European TENCompetence project – 9 Mar 2010
In February 2010 the final TENCompetence review has taken place. The reviewers concluded that the project was very successful and all recommendations were accepted. The four-year TENCompetence project, funded by the EC, developed infrastructure for lifelong competence development in Europe. CELSTEC was one of the 15 European partners and coordinator of the TENCompetence project.
Inaugural address Hans Hummel at NHL in Leeuwarden – 11 Mar 2010
March 18th 2010 dr. Hans Hummel will deliver his inaugural address as lector 'Werkplekken en ICT' at the Institute for Education and Communication (IEC) of the Northern Polytechnic Leeuwarden (Noordelijke Hogeschool Leeuwarden). In his address Hans Hummel will expose his vision and programme for this lectorate.

Open Universiteit supports OpenCourseWare Consortium – 12 Mar 2010
For the next 5 years the Open Universiteit will support the OpenCourseWare Consortium as 'sustaining member'. This consortium is a worldwide collaboration of more than 200 higher education institutions and associated organizations creating open educational content using a shared modelworldwide collaboration.

Workshops on pilots and projects of Empower Limburg – 12 Mar 2010
30 March 2010 Empower Limburg organises interactive workshops on its pilots and projects. Empower Limburg is a network of 20 institutions, including the Open Universiteit, that wants to stimulate labour mobility in Limburg and that supports organisations and individuals to achieve this mobility. Empower Limburg was a pilot organisation in the TENCompetence project.

Prof. dr Sloep lecturing in the UK – 15 Mar 2010
The 24th and 25th of March 2010 CELSTEC’s prof. dr Peter Sloep will be lecturing in the UK. Peter Sloep is programme director of CELSTEC’s Learning Networks programme.

CELSTEC at ICO Spring School – 15 Mar 2010
From 21 till 25 of March 2010 the Dutch Interuniversity Center for Educational Research (ICO) organises the 9th International School on Educational Research in the vicinity of Regensburg, Germany. This edition of this Spring School is organized in cooperation with the University of Regensburg. Several members of CELSTEC staff will be present.

CELSTEC offers free course Internet Skills – 19 Mar 2010
In May 2010 CELSTEC offers a free course Internet Skills (in Dutch). The course offers an overview of the dos and don’ts on the web.
CELSTEC’s Desirée ten Brinke parttime lector at Fontys – 22 Mar 2010
Desirée Joosten-ten Brinke has been appointed lector Contemporary Assessment (Eigentijds beoordelen) at Fontys Lerarenopleiding in Tilburg (FLOT). As of 1 April 2010 she’ll work for 50% in Tilburg. The other 50% she’ll stay on CELSTEC staff. The appointment is for 4 years.

Experiment in Heerlen: language lessons by mobile phone – 22 Mar 2010
The Centre for Learning Sciences and Technologies invites pupils of the higher classes of secondary schools (havo and vwo) located in Heerlen and vicinity (Netherlands) to join in an experiment on language lessons by mobile phone.

FTA publishes three more free books on open source – 26 Mar 2010
The Free Technology Academy (FTA) has published three new books on Open Source and Open standards. The books are published under a free, copyleft license. You are encouraged to use, translate, adapt and redistribute these materials.

Experiment on peer tutoring during an internet course – 29 Mar 2010
In oktober 2009 680 students started the free course on Internet Skills. This course was offered by CELSTEC in collaboration with Fontys Hogeschool. Of these 680 registered students only 413 students really started the course. Of those 281 students succesfully finished in time.

Report on Augmented Reality on smartphone – 29 Mar 2010
In March 2010 the report Mobile Augmented Reality voor het onderwijs has been published. CELSTEC researchers wrote this report (in Dutch) for SURFnet/Kennisnet. It’s a technology survey of augmented reality on smartphones and its possibilities for education.

E-learning excellence label for OU’s Psychology programmes – 30 Mar 2010
The School of Psychology of the Open Universiteit of the Netherlands is the first in the Netherlands to receive the European E-xcellence Associates label. This label is introduced by the European Association of Distance Teaching Universities (EADTU). With this label the school joins the community of ‘Associates in Quality’.
ICOPER E-Learning Performance Workshop with Sector5 – 6 Apr 2010
A delegation of 7 persons from Sector5 visited the CELSTEC MediaLab on 23rd March 2010. They participated in an ICOPER E-Learning Performance Workshop. The full-day workshop was co-organized by Humance AG, a partner within the ICOPER project.

Master class Paul Kirschner at INHolland – 8 Apr 2010
On April 16, 2010 Paul Kirschner, professor of Learning and Cognition at CELSTEC, will give a master class for students of the master programme Learning & Innovation (Leren & Innovatie) at INHolland University of Applied Sciences. The subject is Sense and Nonsense in Education.

Exentension of deadline papers EADTU conference – 9 Apr 2010
EADTU announced an extension of the deadline for submission of papers for the conference Strategies and Business Models for Lifelong Learning that takes place 27-29 of September 2010 in Zermatt (Switzerland). The new deadline is 14 April 2010.

Marcus Specht on new media in education – 12 Apr 2010
Marcus Specht, professor of CELSTEC, is one of the guest speakers at the conference Media in education, a curse or a blessing? This symposium takes place 16 April 2010 and is organised by the study group Dimensie (Psychology and educational sciences) of Twente University. The subject of Specht’s lecture is a vision on the future of new media in education.

CEN Workshop Agreement published – 13 Apr 2010
In March 2010 the Simple Publishing Interface (SPI), a CEN Workshop Agreement, has been published. This protocol enables publish interoperability between learning object repositories and applications that produce learning resources. CELSTEC’s Stefaan Ternier is editor of this standard.

Peter Sloep keynote-speaker at the conference of the Defence Academy – 16 Apr 2010
Prof. dr Peter Sloep of the Open Universiteit (CELSTEC) is one of the keynote speakers second Defence Academies and Colleges e-learning Conference. This conference takes place in The Hague from 21 till 23 April 2010.
Lecture on Learning in Museums and Archives – 19 Apr 2010
Marion Gruber, researcher at CELSTEC, is guest lecturer at the Institute of Educational Sciences at the University of Innsbruck in the summer semester 2010. The title of her lecture is: “The Range of Teaching and Learning Provisions: Non-formal and informal learning in museums and archives”.

New: free course on the Study house – 22 Apr 2010
CELSTEC has developed and published a new, free OpenER course. Topic is the Study House, an educational concept that was introduced in Dutch secondary education ten years ago. The course has the form of a serious game. Students have to collect information from papers, reports and interviews in order to gain insights in the success (or failure) of this concept.

Best student paper award for CELSTEC PhD – 22 Apr 2010
During the IEEE Educon 2010 in Madrid from 16 to 18 April, CELSTEC’s Danish Nadeem received the award for the best student paper. The paper was titled Web 2.0 contents for connecting learners in online Learning Network.

Peter Sloep on Spring School Learning in social networks – 29 Apr 2010
CELSTEC’s professor Peter Sloep will give a lecture at the SURF Spring School on 'Learning in Social Networks' that takes place on 6 and 7 May 2010.

Learning media and education for the hearing impaired – 29 Apr 2010
26 April 2010 a delegation of 14 persons from the DESIRE research group of RWTH Aachen took part in an E-Learning Performance Workshop. The DESIRE research group is focused on the education of deaf and hearing impaired people.

Get your PhD at CELSTEC – 29 Apr 2010
Do you want to get a PhD in the field of education, educational technologies, learning, learning sciences, learning networks, learning media...? Then CELSTEC is the place for you. On April 15th CELSTEC opened a PhD portal that contains all the information you need about the possibilities of becoming an external PhD candidate at CELSTEC.
New on CELSTEC staff: Milou de Smet – 30 Apr 2010
Milou de Smet has joined CELSTEC as a PhD-student. Her PhD thesis will be about students’ use of electronic outline tools for writing and learning. In her first study she will examine the influence of an outline tool on text structure in argumentative writing.

OU-website Studiecoach nominated for LIA award – 10 May 2010
The Studiecoach, a website of the Open Universiteit, has been nominated for the Learning Impact Award. This is an American award for technological innovation.

Inaugural address prof. dr Rob Martens – 10 May 2010
Prof. dr Rob Martens, professor at CELSTEC and Ruud de Moor Centrum will give his inaugural address on 28 May 2010 at the Open Universiteit Heerlen. The title of his address is ‘Zin in onderzoek’ (In the mood for research).

New on CELSTEC staff: Renate de Groot – 11 May 2010
As of May 1st Renate de Groot has joint CELSTEC to work associate professor in the Learning and Cognition Programme. Her scientific activities are related to development of neurocognitve functions in lifelong perspective and possible interventions, which can influence those functions.

Call for abstracts: workshop Exploiting Affordances for Learning – 12 May 2010
9-11 February 2011 the scientific community on ‘Critical and Flexible thinking’ organizes a three-day workshop in Leuven. CELSTEC’s Paul Kirschner and Liesbeth Kester are on the organizing committee. The workshop is open to all scholars studying learning affordances. A call for abstracts has been issued.

Research: How does a jazz musician learn to improvise? – 12 May 2010
Good instruction and variability of practice is needed to learn to be creative. So that is the way to learn how to improvise. But what is ‘good instruction’? And what does ‘variability of practice’ mean? That is the subject of the research of Iwan Wopereis, researcher at CELSTEC.
Sintermeerten College at work in the Medialab – 17 May 2010
28-29 of April 2010 the collaboration between CELSTEC and its neighbor Sintermeerten College took further shape. A school class of 16 year-olds guided by Informatics teacher Guido van Dijk arrived to take part in a two-days workshop at the Medialab.

New issue e-schrift Onderwijswetenschappen – 20 May 2010
18th of May the new issue of the e-schrift Onderwijswetenschappen has been distributed to students and alumni of the master programme Educational Sciences. As usual the magazine contains contributions from teachers and students, the latest news on the programme as well as announcements for events.

Presentation Skills Labs Watermanagement – 21 May 2010
27 May 2010 the Delta Academy of Hogeschool Zeeland, Open Universiteit and Kennis Netwerk Delta Water present the results of the project ‘Surfen door Zeeland: e-learning delta innovaties’. The project has developed Skills Labs, four interactive practical casus on Watermanagement to teach students complex competencies. For the development they used CELTEC’s toolkit Emergo.

Follow CELSTEC on Twitter – 25 May 2010
Follow Celstec on twitter: http://twitter.com/celstec

Paul Kirschner on Urban Legends in Educational Innovation – 26 May 2010
Tuesday evening, 1 juni 2010, Paul Kirschner will give a Science Café lecture.

Launch of Foundation ePortfolio Support (StePS) – 27 May 2010
May 19th 2010 in the presence of Minister Marja van Bijsterveldt the Foundation ePortfolio Support (StePS) was launched. The aim of this foundation is to coordinate and accelerate the introduction of ePortfolios for everybody who participates in education and labour. Theo Bovens, president of the Executive Board of the Open Universiteit, is one of the board members of this foundation.
Inaugural addresses live on internet – 28 May 2010
Today’s inaugural addresses of prof. dr Rob Martens (title: Zin in onderzoek) and prof. dr Luc Stevens (title: Zin in onderwijs) will be transmitted live on the internet. The language of the addresses will be Dutch.

Symposium on Informatics, Education and Innovation – 31 May 2010
On 7th June in Heerlen a symposium takes place on Informatics, Education and Innovation. At this symposium the Informatics faculty of the Open Universiteit presents some of her activities and demonstrates some innovative courses and new technologies for online learning.

Webinar of Steven Verjans on e-coaching – 1 Jun 2010
The 27th of May CELSTEC’s Steven Verjans was one of the speakers at the Move-IT webinar on e-coaching.

Learning network Biebracht leads to letter of intent to collaborate – 3 Jun 2010
On 31 May 2010 the Gelderse Bibliotheeken (libraries from Gelderland), Bibloservice Gelderland and the Library School signed a letter of intent with the Open Universiteit. They declare their intent to collaborate in order to explore and develop new digital forms of learning and knowledge development.

Hot topics at the Learning & Technology Community – 4 Jun 2010
In May the Learning & Technology Community was opened on www.OpenU.nl. This community for researchers, practitioners and managers in the field of education, allows you to stay up-to-date in the field and to participate in conferences, workshops, discussion with fellow professionals etc.

CELSTEC at EDiNEB conference Crossing Borders – 7 Jun 2010
Marcus Specht, Marco Kalz and Paul Kirschner of CELSTEC will give presentations next week at the 17th EDiNEB conference. EDiNEB stands for Educational Innovation in Economics and Business.

EDM visits CELSTEC’s Medialab – 8 Jun 2010
21 May 2010 researchers of the Expertise Centre for Digital Media (EDM) visited the Medialab of van CELSTEC. EDM is a research institute of Hasselt University (Belgium). Main purpose of the visit was to get acquainted with each others work.
Annual report 2009 (in Dutch) is now available – 9 Jun 2010
The annual report 2009 of CELSTEC is now available. CELSTEC aims to research, develop and provide sustainable and evidence-based solutions for the advancement of learning at work, at school, at home and on the move.

CELSTEC at EC-TEL 2010 – 10 Jun 2010
From September 28 to October 1 2010 the 5th European Conference on Technology Enhanced Learning (EC-TEL) takes place. Theme is: Sustaining TEL: from innovation to learning and practice. CELSTEC’s Paul Kirschner is one of the programme chairs. Several others members of CELSTEC staff form part of the programme committee.

CELSTEC at the Educational Research Days – 11 Jun 2010
From 23 till 25 June the Education Research Days 2010 take place in Enschede. During these days the educational researchers of the Netherlands and Flanders present their work (in Dutch). Theme is: The learning teacher as researcher and designer (De lerende leraar als onderzoeker en ontwerper). A large number of CELSTEC researchers contribute to the programme.

Invitation to Learning & Cognition meeting – 14 Jun 2010
The CELSTEC Learning and Cognition programme invites you to be its guest during the public part of their meeting on Thursday, June 17 2010 at the Open Universiteit in Heerlen (13:00 to 14:00, building Milton Keynes, room 3.57). During the meeting PhD Milou de Smet and dr. Saskia Brand-Gruwel will present their current research.

Dutch Ministry of Education: PhD Scholarship for teachers – 15 Jun 2010
As of 2011 the Dutch Ministry of Education grants every year ten PhD scholarships to teachers in order to allow them to do PhD research at a university. This offers new opportunities to teachers who want to become an external PhD.

Two new featured articles available – 16 Jun 2010
Two new featured articles are published. Paul Kirschner introduces his Learning & Cognition programme. Anne Helsdingen tells about her research topic: acquiring Higher Order Thinking Skills.
National Student Enquiry: top grades for Open Universiteit – 17 Jun 2010
According to the National Student Enquiry 2010 (NSE) students of the Open Universiteit are the most satisfied about their studies. They give the OU 4.3 on a scale of 5. A higher grade than the other 13 universities received. Ever since the OU is assessed in this enquiry, it ended in the top three, but now it's number 1.

Award: best PhD supervising team – 24 Jun 2010
During the opening session of the Onderwijs Research Dagen (Educational Research Days) in Enschede the price for the best PhD-supervising team 2009 has been awarded. The winning team was the supervising team of CELSTEC PhD researcher Ludo van Meeuwen.

Conference: searching for information on the web – 28 Jun 2010
15 October 2010 the conference Searching for information on the web will take place in Utrecht. Central theme is (the design of) education in information skills. The conference is organized by CELSTEC in collaboration with research school ICO and the VOR.

Final review idSpace: a job well done – 29 Jun 2010
In May 2010 the final review of the idSpace has taken place. idSpace is a two-year European project on distributed, collaborative product innovation.

Recommender systems in TEL – 5 Jul 2010
June 2010 a dataTEL Theme Team has been created. The goal of this team is to take an initiative to create benchmarks for TEL recommender systems. Recommender systems help people to find what they were not consciously looking for, but can use very well. Websites like bol.com and amazon.com use recommender systems to sell more.

Paul Kirschner president of ISLS – 6 Jul 2010
Prof. dr Paul Kirschner has been nominated president of the International Society of the Learning Sciences (ISLS). Last year Kirschner was president-elect, as of 1 July 2010 he is president.
New on CELSTEC Staff: Johan van Strien – 8 Jul 2010
As of July 1 2010 Johan van Strien has joined CELSTEC staff. He will do PhD research in the Learning & Cognition programme.

Free Technology Academy: new courses and programme – 9 Jul 2010
The Free Technology Academy (FTA) offers two new courses: Legal aspects of the Information Society and Network technologies. These courses are given in the fall of 2010 gegeven, together with the course The concepts of Free Software and Open Standards, that has been offered before. In 2011 the number of courses will increase further as the programme for 2011 shows.

CElstec Vacancy ICT Developer for educational software (1,0 fte) – 13 Jul 2010
CElstec is looking for an ICT Developer for educational software. We are looking for a candidate who has completed higher professional or academic education in computer science or in a related program with a substantial ICT component.

Special track at ICL conference: TORELL – 15 Jul 2010
CElstec’s Marco Kalz and Hendrik Drachsler are organizing a special track at the ICL conference in Hasselt. The track is called TORELL: Tools and Resources for Lifelong Learning. Contributions are on web services, connectors and other techniques that can be offered through widgets to support lifelong learning and open education.

Peter Sloep honorary professor at Glasgow Caledonian University – 20 Jul 2010
The Glasgow Caledonian University has appointed prof. dr Peter Sloep of the het Centre for Learning Sciences and Technologies (CElstec) of the Open Universiteit as an honorary professor in the Caledonian Academy. The appointment is for a period of three years.

MAVSEL: generating and analysing data in educational settings – 22 Jul 2010
The Ministry of Science in Spain has approved the project Mining, Data Analysis and Visualization based on Social models in E-Learning (MAVSEL). CELSTEC takes part in this project as external collaborator/assessor. CELSTEC is the only non-Spanish partner involved in this two-year project.
New on CELSTEC Staff: Halszka Jarodzka – 26 Jul 2010
Halszka Jarodzka has joined the Learning & Cognition group at CELSTEC as an assistant professor as of 15th of July.

Agreement on PhD research between Open Universiteit and NHL – 27 Jul 2010
16 July 2010 an agreement on PhD research has been signed by Open Universiteit (OU) and NHL University of applied sciences (Leeuwarden, NL). This agreement confirms the collaboration between the parties in the field of PhD research of staff members of NHL at the OUNL.

New featured article: Saskia Brand on Information based complex problem solving – 28 Jul 2010
This week a new featured article has been published. Saskia Brand-Gruwel is interviewed on the research theme she leads: Information based complex problem solving. This is one of the three research themes in the Learning & Cognition programme.

OU students learn by mobile phone in Florence – 29 Jul 2010
Walking through Florence while listening to your smartphone that gives you information, feedback and tasks about what you are looking at. If something draws your attention, you record a commentary or record the sounds. And all this without having to programme or operate the mobile device itself. That is the goal of the project Audio Augmented Spaces for Learning.

New featured article: Liesbeth Kester on Flexible learning environments – 2 Aug 2010
Again a featured article has been published. Liesbeth Kester is interviewed on the research theme she leads: Flexible Learning environments. This is one of the three research themes in the Learning & Cognition programme.

Research: Using Facebook not good for study results – 9 Aug 2010
The use of Facebook and other social network sites has a negative effect on study results of students. That is one of the conclusions of a study among American students done by Paul Kirschner, professor Educational psychology of (CELSTEC) of the Open Universiteit and Aryn Kaprinksi of van Ohio State University.
Leraar 24 publishes video on CELSTEC project Learning Languages by Mobile Phone – 12 Aug 2010

At the website www.leraar24.nl a video has been published about the research project of Tim de Jong. He teaches hindi to pupils of secondary schools by means of a mobile phone.

New Featured Article: Els Boshuizen on Domain specific expertise development – 16 Aug 2010

Again a featured article has been published. Els Boshuizen is interviewed on her research topic: Domain specific expertise development. This is one of the three research themes in the Learning & Cognition programme.

Keynote Paul Kirschner at EARLI SIG6/7 conference – 27 Aug 2010

On Monday, 30 August 2010, Prof. dr Paul Kirschner, chair of the Learning & Cognition Programme at CELSTEC, a research institute of the Open Universiteit, will give the opening keynote address at the EARLI SIG6/7 conference.

Tutorial on modelling Adaptive Units of Learning with IMS LD – 7 Sep 2010

CELSTEC and the Grapple project organize a (full day) tutorial on modelling Adaptive Units of Learning with IMS LD Authoring Tools.

Special Issue on eLearning 2.0 University – 7 Sep 2010

In September 2010 the special issue Towards eLearning 2.0 University has been published in Interactive Learning Environments. The issue is edited by CELSTEC’s Adriana Berlanga, Peter Sloep and Francisco G.

Best Poster Award for CELSTEC – 8 Sep 2010

On September 2, 2010 CELSTEC colleagues Ludo van Meeuwen, Halszka Jarodzka, Saskia Brand-Gruwel, Jeano de Bock, Paul Kirschner and Jeroen van Merriënboer presented a poster at the EARLI SIG 6/7 conference and won the ‘Best Poster Award’. Title of the poster was: ‘Processes Mediating Expertise in Air Traffic Control’.

Best Paper Award – 10 Sep 2010

On September 1, 2010 CELSTEC colleague Liesbeth Kester, and Tamara van Gog and Fred Paas of the Institute of Psychology, Erasmus University Rotterdam, won the ‘Best Paper Award’ for a paper they presented at the EARLI SIG 6/7 conference.
Science Cafe in Heerlen: mobile learning in virtual acceleration – 13 Sep 2010
Tuesday 21 September 2010 CELSTEC’s Fred de Vries gives a lecture (in Dutch) in the Science Cafe in Heerlen. In Café Pelt on the Pancratiusplein he presents a number of educational uses of mobile learning and he will give a demonstration of the educational applications the Open Universiteit is developing. Entrance is free.

Desiree Joosten supports OU Tanzania in implementing online examination – 14 Sep 2010
Saturday 11 September 2010 CELSTEC’s Desiree Joosten-ten Brinke travelled to Tanzania in order to support the Open University of Tanzania (OUT) in planning a road map to develop a system for examinations on demand and eventually on-line examinations.

Promotion: Paving the Way for Lifelong Learning – 14 Sep 2010
A lifelong learner has to find his way through an ever increasing number of available options: courses, programs, workshops, books, discussion fora, video instructions, etc. José Janssen, researcher at CELSTEC, has studied how lifelong learners can be supported to choose those learning paths that fit their own needs and wishes. Friday 17 September 2010 she will defend her PhD thesis titled Paving the Way for Lifelong Learning; facilitating competence development through a learning path specification.

CELSTEC contribution to ATEE conference 2010 – 15 Sep 2010
From August 26 through August 30, 2010 Marcel van der Klink of CELSTEC of the Open Universiteit and Marion de Bie, Lia van Alphen and Arjan Dieleman of the RdMC, an expertise centre of the Open Universiteit, attended the 35th yearly ATEE conference.

EADTU conference in Zermatt – 15 Sep 2010
27 till 29 September 2010 the EADTU-conference 2010 Strategies and business models for lifelong learning Networking Conference takes place in Zermatt (Zwitserland). EADTU is the European Association of Distance Teaching Universities, of which the Open Universiteit is one of the founding members.

Keynote Marcus Specht at a conference on "Interaktive Kulturen" – 17 Sep 2010
On Wednesday 15 September 2010 Prof. Marcus Specht gave a keynote at the joined conference on "Interaktive Kulturen". Subject of the keynote is "Learning in a Technology-Enhanced World".
Lecture on the teenagers’ brain – 20 Sep 2010
29 September 2010 CELSTEC’s Renate de Groot will give a lecture (in Dutch) on the working of the teenager brain in the public library in Nuth. Why do teenagers sleep so late?

Five short videos on Information skills on the internet – 21 Sep 2010
The educational website “Leraar 24” (teacher 24) has published five videos in which CELSTEC’s Saskia Brand-Gruwel is interviewed on the importance of education in information skills.

Student teacher joins Learning & Cognition team – 22 Sep 2010
As of September 2, 2010, Esther Argelagós, a PhD candidate from the Faculty of Educational Sciences of the University of Lleida in Spain, has joined the Learning & Cognition team of CELSTEC, to do a pre-doctoral stage under the supervision of dr. Saskia Brand-Gruwel of CELSTEC, for a period of three months.

Presentation on ‘E-Feedback in collaborative writing’ – 22 Sep 2010
On September 21, 2010, Teresa Guasch of the Directora del Programa de Psicopedagogia of the University Oberta de Catalunya, Barcelona, Spain, gave a presentation to all CELSTEC staff members on ‘E-Feedback in collaborative writing. Why and how to promote it?’.

CELSTEC’s Marion R. Gruber E-Learning-Coordinator in Zürich – 27 Sep 2010
As of 1st September 2010 CELSTEC’s Marion Gruber has joined the Faculty of Arts and Humanities at University of Zürich (Switzerland) as E-Learning Coordinator.

CELSTEC presentation on development of e-portfolio – 28 Sep 2010
On September 22, 2010, prof. dr Peter Sloep, programme director of the programme Learning Networks at CELSTEC of the Open Universiteit, gave a presentation at the meeting ‘E-portfolio next StePS’ in Delft, organized by StePS in collaboration with the NEN commission Learning Technologies.
CELSTEC keynote at ‘Day of the Languages’ – 1 Oct 2010

On September 24, 2010 dr. Stefaan Ternier, researcher at the Learning Media programme of CELSTEC, gave a keynote, titled ‘Why is collaborative learning more effective? And is collaborative learning possible by mobile?’ at the ‘Day of the Languages’ event, that took place in Venlo.

Free webinars on Mobile devices in higher education and on Open Educational Resources – 5 Oct 2010

7 October 2010 OpenU offers two free webinars. CELSTEC’s prof. dr Marcus Specht will give a webinar on Mobile devices in higher education on OpenU. Dr. Patrick McAndrew of the British Open University will give a presentation on Open Educational Resources (OER) in higher education and his experiences with OpenLearn, the Open ER portal of the British Open Universiteit.

Article of Els Boshuizen added to AM Classics – 6 Oct 2010

An article of CELSTEC's prof. dr Els Boshuizen has been admitted to AM Classics, a collection of articles published in Academic Medicine since 1990 that have been cited 50 or more times. Co-authoring the article were Henk Schmidt and Geoff Norman.

Project of alumnus Learning Sciences wins Van Kemenade-award – 6 Oct 2010

On 2 October 2010 the Positive Behaviour Project of youth care institution Yorneo and five primary schools has won the Jos van Kemenade Award 2010. The driving force behind this project is Bert Wienen, recently graduated MSc Learning Sciences of CELSTEC.

CELSTEC paper presentation at CRIWG 2010 – 11 Oct 2010

On September 22, 2010, Ellen Rusman, educational technologist at CELSTEC, a research institute of the Open Universiteit, gave a presentation at the 16th CRIWG Conference on Collaboration and Technology. Title of the presentation: ‘The Mind’s Eye on Personal Profiles; How to Inform Initial Trustworthiness Assessments in Virtual Project Teams’.

Learning repositories in Europe – 11 Oct 2010

Last week Fred de Vries talked at the EdReNe seminar in Copenhagen about one of the eContent+ projects, CELSTEC is involved in: Share.TEC. The EdReNe network of projects on repositories with educational repositories is the continuation of the eContent+ project which finished this Summer.

Wikiwijs nominated for eParticipation Award – 12 Oct 2010

Wikiwijs, a project of Open Universiteit and Kennisnet, is one of the nominees for the eParticipation Award 2010 of Burgerlink. Wikiwijs is a platform for teachers to search, use, make and share learning materials.
Information skills for teachers – 13 Oct 2010
CELSTEC's Saskia Brand-Gruwel and Jaap Walhout of the Ruud de Moor Centrum have published a report 'Information skills for teachers'. It provides them the skills needed to collect and process digital information.

 Liesbeth Kester voted into Editorial board of ETR&D – 14 Oct 2010
The ETR&D Development Board nominated and voted for CELSTEC's Liesbeth Kester join the Editorial board of the magazine Educational Technology Research and Development.

CELSLEC participates in serious games project GALA – 18 Oct 2010
CELSLEC participates in serious games project GALA. GALA stands for the Gaming and Learning Alliance. It is a Network of Excellence on serious games that has been launched by the European Union in the context of technology-enhanced learning, in the 7th Framework Programme for research. The kick-off meeting took place in 11-13 October 2010 in Genoa.

Share.TEC: 2nd year review reveals enthusiasm and long term perspectives – 25 Oct 2010
Two weeks ago the EU funded eContent+ project Share.TEC has been reviewed for the second time, progressing in its 3rd year until June 2011. CELSTEC was represented by Fred de Vries. The review committee reported like last year favorably on the project. Actually they expressed enthusiasm on the prospects of the projects and its spin-offs.

Volg de pilot Augmented Reality in Florence – 26 Oct 2010

Steven Verjans in study day about e-learning, creativity and social media – 26 Oct 2010
October 26 CELSTEC's Steven Verjans participates in a study day about e-learning, creativity and social media of the Expertise Centre Distance Learning (expertisecentrum afstandsleren) of KATHO in Tielt (BE).
CELSTEC contributes to better handovers between primary and secondary care – 28 Oct 2010
On October 13, 14 and 15, 2010, a project meeting of the three-year European HANDOVER project took place in Brussels, Belgium.

OpenED 2010 Barcelona on the virtues of Open Education and OER – 28 Oct 2010
From 2-4 November 2010 the OpenED 2010 conference takes place in Barcelona. The conference is jointly organized by the Open University in the Netherlands and the Universitat Oberta de Catalunya (UOC).

CELSTEC co-organizes the Mobile Learning Day 2010 – 28 Oct 2010
4 November 2010 the 3d Mobile Learning Day 2010 takes place at Fernuniversität Hagen (GE). CELSTEC is co-organizer of the conference.

Self-regulated learning has to be taught – 2 Nov 2010
Friday November 5th Danny Kostons defends his PhD thesis at the Open Universiteit in Heerlen. His research focuses on the question how to help students to acquire self-regulated learning skills.

Call for papers: research in the field of computer science education – 3 Nov 2010
Thursday 7 and Friday 8th of April 2011 the first Computer Science Education Research Conference (CSERC’11) takes place. CSERC’11 is an international conference providing a platform for researchers with interests in all aspects of computer science education.

CELSTEC at the Dutch Education Days – 8 Nov 2010
At 9-10 November 2010 Dé Onderwijsdagen (The Education Days) take place in Utrecht. Theme is Innovation and reality: the tension between the constant stream of innovations and the day-to-day reality of the educational process. CELSTEC’s Peter Sloep is one of the speakers.

Paneldiscussie effect competentiegericht opleiden in het beroepsonderwijs – 9 Nov 2010
Op vrijdagmiddag 12 november 2010 vindt er bij de Universiteit Utrecht een discussiebijeenkomst plaats over de effecten van competentiegericht opleiden in het beroepsonderwijs. Vanuit de Open Universiteit nemen Miriam Goes (Ruud de Moor Centrum) en Marcel van der Klink (CELSTEC) deel aan de paneldiscussie.
Lezing Marcel van der Klink bij VELON – 9 Nov 2010

CELSTEC PhD wins InHolland Research Award – 16 Nov 2010
Thursday 4 November 2010 Jos Fransen, external PhD from CELSTEC, the Inholland University Research Award 2010. He received the price for his project ‘Team effectiveness in the context of collaborative learning in higher education’. He hopes to defend his PhD in the course of next study year.

FTA consortium expands – 16 Nov 2010
The Free Technology Academy (FTA), in which the Open Universiteit participates, has attracted two new partners: Gleducar and P2P-foundation. And FTA is going to collaborate with the Free Software Foundation (FSF).

CELSTEC at Kennis in Bedrijf (Knowledge at Work) – 18 Nov 2010
18 November 2010 Hogeschool Zuyd organizes for the 9th time Kennis in Bedrijf (Knowledge at Work). This event allows students, staff and relations of Hogeschool Zuyd to meet and to share knowledge. CELSTEC’s Peter Sloep and Marcel van der Klink (CELSTEC) give a presentation during this event.

New at CELSTEC: Martin van Dijk – 23 Nov 2010
As of November 2010 Martin van Dijk has joined CELSTEC. He will be working as a PhD student within the Learning & Cognition programme. His research topic is Nutrition and energetic functions as determinants for school performance and neurocognitive functioning at school age.

Meet CELSTEC at Online Educa Berlin from 1 to 3 December – 26 Nov 2010
Next week CELSTEC will be present at the Online Educa Berlin conference. These last years CELSTEC has become a regular participant and exhibitor at the conference. Fred de Vries, organizing this year’s presence explains: “This year we focus on the showcasing and networking for three EU funded projects CELSTEC staff is deeply involved in”.

Workshop on LTfLL – 26 Nov 2010
On 2 December, 2010, Adriana Berlanga, researcher of the Learning Networks programme at CELSTEC, will lead a workshop on the project Language Technologies for Lifelong Learning in the Study Centre of the Open Universiteit in Utrecht.
Presentations on learning environments and recommender systems – 30 Nov 2010
Tuesday 30 November 2010 CELSTEC’s Marco Kalz and Hendrik Drachsler gave a presentation at the meeting of the VOR division on ICT in Utrecht. Theme of the meeting was social software and serious gaming.

Registration CSERC 2011 is open – 30 Nov 2010
Thursday 7th and Friday 8th of April 2011 the first Computer Science Education Research Conference (CSERC’11) takes place. Registration is now possible. CSERC’11 is an international conference providing a platform for researchers with interests in all aspects of computer science education.

CELSTEC develops an online course Basic Life Support – 7 Dec 2010
CELSTEC is going to develop an online CPR course for students in secondary education.

Two vacancies for PhD research at CELSTEC – 9 Dec 2010
CELSTEC is looking for two PhD candidates. They will do research in the field of Learning & Cognition, under auspices of NeLLL (the Netherlands Laboratory for Lifelong Learning).

Award for CELSTEC’s Dirk Börner – 9 Dec 2010
At the 18th International Conference on Computers in Education, CELSTEC PhD Dirk Börner has been awarded the prize for the best Work in Progress Poster. Dirk won the award for his poster “A Conceptual Framework for Ambient Learning Displays”.

Open book on Open Educational Resources in the Netherlands – 14 Dec 2010
10 December 2010 the ‘Open Boek over open educational resources in Nederland’ (Open book on open educational resources in the Netherlands) has been published, in print as well as online.
Annex 2.1 Learning & Cognition: Output and Memberships 2010

All Articles

(S)SCI/ISI


Sweller, J., Clark, R., & Kirschner, P. A. (2010). Teaching general problem-solving skills is not a substitute for, or a viable addition to, teaching mathematics. *Notices of the American Mathematical Society, 57*, 1303-1304.


**Other**


**Professional publications**


**Book**


Booksection

Refereed papers in conference proceedings


Contributions to conferences and congresses


Brand-Gruwel, S. (2010, March). Googlificatie van het onderwijs: instructie in beoordelen, selecteren en verwerken van digitale informatie [Instruction in judging,
selecting and processing of digital information]. Invited address presented at Avans conference on Information Problem Solving, Den Bosch, The Netherlands.


Jarodzka, H., Balslev, T., Holmqvist, K., Nyström, M., Scheiter, K., Gerjets, P., et al. (2010, August). Fostering perceptual skills in medical diagnosis. Meeting of the EARLI SIG6/7 Instructional Design and Learning and Instruction with Computers, Ulm, Germany.


Paas, F. (2010, November). Multidisciplinary research perspectives on the design of innovative learning environments. Keynote presented at Fo Guang University, Yilan, Taiwan.


Van Gog, T., Kester, L., & Paas, F. (2010, August). Effects of worked examples, exampleproblem pairs, and problem-example pairs compared to problem solving. Paper presented at the Biannual EARLI SIG meeting of Instructional design and Learning and instruction with computers, Ulm, Germany.


Van Merriënboer, J. J. G. (2010, 4-8 September). Educating the future doctor: An instructional design perspective (or, beyond PBL). Presentation at the Annual Conference of the Association for Medical Education in Europe (AMEE), Glasgow, Scotland.

Van Merriënboer, J. J. G. (2010, 4-8 September). Applications of Cognitive Load Theory in Medical Education. Presentation at the Annual Conference of the Association for Medical Education in Europe (AMEE), Glasgow, Scotland.


Workshops/trainingen


**Report**


**Dissertation**


**Memberships**

**Executive Committee**


Kirschner, P. A. (2010). Member of the Advisory Council of the Stoas Professional University Master of Learning and Instruction for (Green) Education and Companies.

**Membership of Programme Committees, professional conference**
Brand-Gruwel, S. (2010). Chair of the organisation committee of the 1th symposium on information problem solving, Utrecht, the Netherlands, to be held on the 15th of October 2010.

**Membership of Programme Committees, scientific conference**
Firssova, O. (2010). Member of the European Association for Research on Learning and Instruction (EARLI).
Kirschner, P. A. (2010). Member of the executive board and Program Committee for the International Conference on the Learning Sciences (ICLS2010.), Chicago, IL, USA.
Kirschner, P. A. (2010). Member of the executive board and Program Committee for the International Conference on Computer-Supported Collaborative Learning, Hong Kong, June/July 2011.
Membership of the Editorial Board (journals, books, special issues)
Mooij, T. (2010). Member of the editorial board of assessors of Emotional and Behavioural Difficulties.

Board Membership of National and International Academic Organisations
Gorissen, C. (2010). Board Member and website editor of the interest group for Ph.D.students (VPO) of the Netherlands Educational Research Association Vereniging voor Onderwijsresearch (VOR).
Mooij, T. (2010). Member of the Academic Committee of the Social, Emotional and Behavioural Difficulties Association (SEBDA).

Membership of Scientific organisations
Bijker, M. (2010). Member of EARLI [the European Association for Research on Learning and Instruction].
De Groot, R. H. M. (2010). Member of the School for Mental Health and Neuroscience (MHENS).
De Smet, M. (2010). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).
Dirkx, K. J. H. (2010). Member of the Educational Committee of Research School ICO [Interuniversity Center for Educational Research].
Dirkx, K. J. H. (2010). Member of the research network European Research on Learning and Instruction (EARLI).
Helsdingen, A. (2010). Member of the European Association of Aviation Psychologists.
Helsdingen, A. (2010). Post doc Member of the Educational Committee of Research School ICO [Interuniversity Center for Educational Research].
Hoogveld, A. W. M. (2010). Member of the International Study Association on Teachers and Teaching.
Jarodzka, H. (2010). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).
Jossberger, H. (2010). Member of the research network European Research on Learning and Instruction (EARLI).
Kester, L. (2010). Staff member of Research School ICO [Interuniversity Center for Educational Research].
Kester, L. (2010). Member of the European Association for Research on Learning and Instruction (EARLI).
Kirschner, P. A. (2010). Member of the Association for Educational Communication and Technology (AECT).
Kirschner, P. A. (2010). Member of the European Association for Research on Learning and Instruction (EARLI).
Mooij, T. (2010). Member of the Association for Educational Communications and Technology (AECT).
Mooij, T. (2010). Member of the European Association for Research on Learning and Instruction (EARLI).
Van den Boom, W. J. G. (2010). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).
Van Meeuwen, L. (2010). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).
Van Meeuwen, L. (2010). Member of European Association for Aviation Psychology (EAAP).
Van Mierlo, Ch. (2010). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).
Wopereis, I. G. J. H. (2010). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).
Others
Mooij, T. (2010). Member of the Consultancy Group of Acadin (a project of Kennisnet and SLO to develop digitally enriched learning processes for highly able learners in primary education).

Awards
Kester, L., Van Gog, T., & Paas, F. (2010). Best Paper Award of the EARLI SIG 6/7 conference for the paper “Effects of worked examples, example-problem pairs, and problem-example pairs compared to problem solving”.
Annex 2.2 Learning Networks: Output and Memberships 2010

All Articles

SSCI


ICO


SIKS


Professional publication


sloep/2010/03/17/werk-aan-de-winkel/

**Book**

**Booksection**

**Refereed papers in conference proceedings**


**PhD-proposal**


**Dissertation**


**Software and specifications**


**Contributions to conferences and congresses**


**Workshops/trainingen**

Janssen, J. (2010, February). *De weg bereiden tot leren. Demo van de leerpad specificatie en editor (gebruikt t.b.v. evaluatie leerpad specificatie).*


**Reports**

*All_partners.* (2010). *idSpace Deliverable D6.4 - Exploitation Plan*: idSpace-project.


Joosten-ten Brinke, D. (2010 ). *Problem analyses in redefining the examination system of the Open University of Tanzania (OUT) towards exams on demand*. Tanzania, Dar es Salaam: OUT.


IPO-output

Memberships

Executive Committee

Membership of Programme Committees, scientific conference
Bitter-Rijpkema, M. (2010). Program Committee member for the Program Committee of the IADIS Web Based Communities and Social Media 2010 (WBC 2010).


Membership of the Editorial Board (journals, books, special issues)
Berlanga, A.J. (2010). Online Information Review, Special Issue on Open Knowledge (García et al, eds.).

**Board Membership of National and International Academic Organisations**


**Membership of Scientific organisations**

Joosten-ten Brinke, D. (2010). Member of the research network European Research on Learning and Instruction (EARLI).
Sloep, P. B. (2010). Staff member of Research School ICO [Interuniversity Center for Educational Research].
Sloep, P. B. (2010). Member Association for Learning Technology
Sloep, P. B. (2010). Member of the Netherlands Educational Research Association Vereniging voor Onderwijsresearch (VOR)
Van Bruggen, J. M. (2010). Staff member of Research School ICO [Interuniversity Center for Educational Research].
Van Rosmalen, P. (2010). Staff member of Research School ICO [Interuniversity Center for Educational Research].

Others
Brouns, F. M. R. (2010). Reviewer for Interactive Learning Environments
Koper, R. (2010). Member of the IMS Global Learning Consortium Board.

**Awards**
Annex 2.3 Learning Media: Output and Memberships 2010

All Articles

SSCI


Other


Professional publication


**Refereed papers in conference proceedings**


<http://hdl.handle.net/10609/4881>


Contributions to conferences and congresses


Klemke, R., & Schmitz, B. (2010, 27-28 September). Authoring for Re-Use in Outcome-oriented Learning Scenarios. Workshop presentation at the Fourth International Workshop on Search and Exchange of e-le@rning Materials (SE@M’10), Barcelona, Spain.

Recommendation & Guideline. Presentation given at CELSTEC LMP, Heerlen, The Netherlands: Open University of the Netherlands. [Internal]


Reports

Agea, A., Crespo Garcia, R., Delgado Kloos, C., Gutiérrez, I., Leony, D., & Pardo, A. (2010). ICOPER Deliverable D-6.2 - Production flow description and prototype for the two platforms under study (Moodle and .LRN) including the required steps to exchange the material in both platforms. Madrid: Universidad Carlos III de Madrid; ICOPER.

[Contributors: Zuzana Bizonova, Michael Derntl, Tore Hoel, Roland Klemke, Tomaz Klobucar, Daniel Mueller, Jad Najjar, Anh Vu Nguyen-Ngoc, Elisabetta Parodi, Marcela Porta, Mirja Pulkkinen, Martin Sillaots, Michael Totschinig, Peter Vinnervik]


practices across Partner Colleges. Inverness, Scotland: UHI Millennium Institute - Learning and information services department.


Kennisnet, Innovatieprogramma.

**PhD-proposal**

**Software**

**IPO-output**

**Memberships**

**Executive Committee**
Specht, M. (2010). Program Chair of the 18th international Conference on Computers in Education.
Membership of Programme Committees, professional conference

Membership of Programme Committees, scientific conference

Membership of the Editorial Board (journals, books, special issues)

Board Membership of National and International Academic Organisations
Kelle, S. (2010). Member of advisory board (EU ROLE project).
Membership of Scientific organisations


Glahn, C. (2010). Member of the International Association for Mobile Learning (IAMLearn).


Gruber, M. R. (2010). Member of the research centre Education - Generation - Lifecourse. Institute of Educational Sciences, University of Innsbruck.


Hummel, H. G. K. (2010). Staff member of Research School SIKS [School for Information and knowledge Systems], www.siks.nl


http://www.acm.org/


Specht, M. (2010). Staff member of Research School ICO [Interuniversity Center for Educational Research].


Van Rosmalen, P. (2010). Staff member of Research School ICO [Interuniversity Center for Educational Research].


Others


Awards

Annex 2.4 Education & Training: Output 2010

All Articles

(S)SCI/ISI

Professional publications

Contributions to conferences and congresses
Annex 2.5 Instellingsbreed Programma Onderwijs (IPO): Output 2010

IPO-Reports

Workshops/ cursusbegeleiding 2010

Docentenondersteuning – Basis Kwalificatie Onderwijs – 2010

Docenten (tutoren) IPO-BKO:

Externe inhuur: Derks, H.

Totale 33 workshops/cursussen, 198 deelnemers.
- *Competentiegericht curriculum- en cursusontwerp* (2x) + individueel. Firssova, O., & Giesbertz, W.; 25 maart 2010; 16 november 2010
- *Cursus(her)ontwerp* (2x). Schlusmans, K.M.; 22 april 2010; 4 oktober 2010
- *Ontwikkeling van OU-onderwijs* (1x, 1x parallel). Ebrecht, D., Pannekeet, K., & Stalmeier, M.; 20 mei 2010; 3 november 2010
- *Schrijven van studiemateriaal* (2x). Ebrecht, D., & Stalmeier, M.; 17 juni 2010; 24 november 2010
- *Groepsbijeenkomsten: doceren en presenteren* (geannuleerd). Ebrecht, D., & Schlusmans, K.
- *Modereren van discussiegroepen* (1x). Eshuis, J. (PSY); 24 maart 2010
- *Online begeleiding* (4x): Spoelstra, H.; Online Kennismaking+ Moderatorentraining: 8 en 13 april; 18 en 25 mei ; 29 november en 2 december 2010; Moderatorentraining 11 maart 2010
- *Construeren en analyseren van toetsen en items* (2x): De Roode, F.; 14 april 2010; 17 november 2010
- *Competentiegericht toetsen* (2x + individueel): Moerkerke, G.; 27 april 2010; 9 november 2010
- *Kwaliteitszorgsysteem* (2x): Wagemans, L.; 23 juni 2010, 7 december 2010
- *Onderwijsevaluatie* (2x): Wagemans, L.; 23 juni 2010, 7 december 2010

Docentenondersteuning:
Intervisie bijeenkomsten voor docentenstaf faculteit Natuurwetenschappen:
Begeleiders: Ebrecht, D., & Giesbertz, W.
28 juni 2010 – thema: Fasen in het onderwijsontwikkelingsproces
20 september 2010 – thema: Ontwikkelingsproces aan de hand van een cursusplan: planning, inzet en uitvoering
13 december 2010 – thema: Werkbegeleiding bij de onderwijsontwikkeling (leesgroep, klankbordgroep etc.)

Presentatie over BKO, opzet en ervaringen
Voor stafleden van de FernUniversität Hagen; Ebrecht, D. 31 augustus 2010

Onderwijscolloquia 2010
4 maart 2010 – Ontwikkelen digitaal onderwijs en docentenondersteuning
22 april 2010 – Student meer centraal
24 juni 2010 – Computergebaseerd toetsen
7 oktober 2010 – Mobile learning and E-books
11 november 2010 – OpenU

Memberships General CELSTEC 2010

Others
Ebrecht, D. (2010). Lid van de Studiegroep Onderwijs Professionalisering (SOP) [één van de werkgroepen die onder EHON vallen].