



# Annual Report 2009 Land Use Planning Group

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## Preface

The Land Use Planning group proudly presents its annual report 2009 in a new format. It symbolizes the constant need to reinvent our identity and adapt to the changing environment. Changes such as the consequences of the economic crisis, the erosion of authority of scientists in society in the context of the climate debate cannot be ignored.

In the world of planning research new issues are put on the political agenda, old ones fade away. Budgets earmarked for research under the aegis of the so-called first category of research funds ("eerste geldstroom") are low. So scholars are tempted to use the utmost of their creativity and sales competencies in order to keep the stock of externally funded projects intact. This is a constant challenge for senior members of staff. In the previous year the efforts to increase the number of post-docs and PhD's has met with mixed responses. Three new PhD projects have made a start whereas four PhDs have finished and defended their thesis. In a long time perspective of the group's performance and taking into account the economic circumstances this is an encouraging result. But the total number of junior researchers has declined over the year so there is no reason for self indulgence. The long list of project proposals conceived by staff members, which is revised on a monthly basis shows that the team is constantly exploring research opportunities in European programs and national regional and local forums.

Important though research may be, let us not forget that a university is an educational institution. In the case of the land use planning group the bulk of the income is still attached to educational services. We are proud to deliver high quality courses in spatial planning and planning related curricula. Overall the group of teachers has managed to constantly improve courses. Recent innovations in the domain of problem oriented education build upon a long tradition of linking theory and practice in planning. This so-called "werkplaats" con-

cept proves to be a linking pin and didactic trigger in LUP education. Support by an in-house coordinator proved to be of vital importance.

### Peer review

The LUP research output has been assessed in 2009, as a part of the assessment of the Mansholt Graduate School of Social Sciences. The LUP research output was graded with an average mark of 3.9 on a scale of 1 to 5; sufficient prove of the progress made in the last five years. The results are specified as:

Scientific quality	4.0
Productivity	4.0
Relevance	4.0
Vitality and feasibility	3.5

The review committee pointed out that the group in particular made progress in the output in peer-reviewed international journals. Bibliometrical analysis shows that the number of high impact publications in these scientific journals has risen considerably over the review period. Furthermore, the citation index of these publications is above world average.

The reviewers recommend an even stronger focus on planning journals where the debate is going on, such as European Planning Studies, for the enhancement of the visibility in the international planning community. They also suggest focusing more on prestigious NWO-funding at the cost of contract funding.

### PhD theses

The harvest of PhD theses has been rich in 2009 as compared to preceding years. Five theses have been completed. First in line was Jannemarie de Jonge who defended her PhD thesis on January 9. The title of her thesis: Landscape architecture between politics and science: An integrative perspective on landscape planning and design in the network society. Robbert Snep defended his thesis, entitled Biodiversity conservation at business sites, on February 6. A few days later, on February 9, Gerrit Jan Carsjens defended his thesis Supporting strategic spatial planning: Planning Support Systems for the spatial planning of metropolitan landscapes. On September 11 Ramona van Mar-





wijk defended her thesis: These routes are made for walking. Understanding the transactions between nature, recreational behaviour and environmental meanings in Dwingelderveld National Park, the Netherlands. Jeroen Neuvel defended his thesis about the Geographical Dimensions of risk management: the contribution of spatial planning and geo-ICT to risk reduction on October 21<sup>st</sup>. Five PhD theses are pending for 2010.

### Personnel

In June 2009 Dr. Marjan Hidding has retired. Marjan has been a staff member at the Wageningen University for long. She has been a driving force behind the “design-oriented” planning approach, introduced in the 1980s by the Wageningen Professor of Planning Studies Kleefmann. Design-oriented planning can be defined as a form of “seeking a direction”. As part of the tasks involved with seeking a direction through planning, the future has become a topic of research and of political and societal debate. Marjan gave her farewell lecture on June 26. In August, Jeroen Neuvel was appointed as a lecturer at the Saxxion Hogeschool in Enschede. We wish him all the best with his new position. In November Adri van den Brink was appointed as chairman and full professor at the Landscape Architecture group of the Wageningen University. We hope that his appointment will further strengthen our co-operation with the Landscape Architecture group. Furthermore, in 2009 the Belvedere Chair of André van der Zande has been concluded, and consequently his position and that of Roel During at our group has ended. The PhD research of Roel will continue in 2010 and is projected to finish by the end of the year.

In the coming years two more senior members will retire, opening up opportunities for rejuvenation of staff. This will take place under a new regime of the tenure track system. This has been pending for years and has been implemented in 2009. The tenure track system implies the application of more ambitious criteria to the scientific quality of applicants.

Arnold van der Valk  
February 2010 ◀

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### LUP research domain

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The land use planning group produces state of the art knowledge on the process and substance of spatial planning. Planning is perceived as linking scientific knowledge to actions in the public domain. Linking pin is the assessment of physical and social consequences of intended actions. Spatial planning has been defined as the conception of meaningful linkages between actual and future actions, projects and strategies which impact upon the spatial organization of a given territory. This implies the study of land uses, land and water management, landscape design and development of the physical environment as perceived through the eyes

of human actors. Inclusion of a stakeholder perspective is a necessary condition for science for impact. Research of planning focuses on planning as communication, decision making and design respectively. Within the confines of the university, spatial planning is addressed as a discipline in the borderland between natural sciences, social sciences and the humanities.

### Our strategy

Cooperation is a key-issue in actual research and educational work. Cooperation between planners and landscape architects for the sake of landscape development and preservation has been particularly stimulating. Inter-disciplinarity has become a trademark of the group's work, both in research and in education. The group's long term (five years time span) strategic plan is under revision. The plan is a framework for the group's annual action scheme. The draft strategic plan is conceived by the chair-holder and discussed in occasional group meetings. The actual document has not been discussed in detail yet. This is due for our next annual brainstorm meeting. It is scheduled following an ongoing team building and leadership coaching project which takes up most of January and February 2010.

The group's long term priorities are:

1. A steady increase in the number of reviewed papers in scientific journals.
2. Further strengthening the international scope of the group.
3. Consolidation of cooperation in the context of Landscape Centre.
4. Investing in public relations for the sake of growth of the number of students in the specialization spatial planning in the BSc Landscape Architecture and Spatial Planning.
5. Greater emphasis on the search for research funds for post-doc and PhD-projects.

Recently much effort has gone into the establishment of links with foreign scholars in Europe, North America, Australia and China. Windows towards other parts of the world are now wide open both in education and research. Internationalization has been a priority for a couple of years now. So far, this is reflected in the growing number of publications in international scientific journals and the introduction of English as the language of a steadily growing number of courses in the BSc. The Msc courses have been taught in English for five years now. The rewards are a growing number of international students in the MSc curriculum and growing recognition of the group's international standing. The Association of European Schools of Planning (AESOP), the Euroleague of Life Sciences Initiative for Spatial Planning (ESPI), the International Study group On Multiple Uses of Land (ISOMUL), and the Council of Educators in Landscape Architecture in North America (CELA) are important partners. In May 2010 the land use planning group takes part in the organization of the international conference on Landscape Legacy in Maastricht, organized by the International Study group



On Multiple Uses of Land (ISOMUL) and the Council of Educators in Landscape Architecture (CELA). ◀

LUP Education

Linking education and planning practice

A trend in our bachelor and master courses is to connect learning processes with real-time experiences from planning practice. This connection takes place in the so-called "werkplaats" construction, in which students, lecturers, politicians, practitioners, and stakeholders meet, with the intention to learn from each others knowledge and approaches. Recently, our students were confronted with practical cases (with good results) in:

- The first year of the bachelor: A case in the area Noord Beverland in the province Zeeland (Course LUP 10306 Project Landscape Architecture and Planning, in the part of the course that focuses on Planning).
- The second year of the bachelor: A case in the Veenkoloniën area in the North of the Netherlands (course LUP 22806 Introduction to the Theory and Methodology of Spatial Planning).
- The third year of the bachelor: A regional case in Twente (course LUP 32306 Studio Strategic Planning). In this case the students worked independently in project groups of 8 students, and developed a regional vision for the city fringes of the urban areas in the Region of Twente.

ESPI

In 2007 the Land Use Planning group of Wageningen University initiated the Euroleague Spatial Planning Initiative (ESPI) as subject area of the Euroleague for Life Sciences (ELLS). The aim of ESPI is to strengthen the cooperation of students and staff of the different spatial planning departments of European Universities.

Summer school

In May 2009 a ten-day International Student Planning and Design Workshop took place in Hamburg, Germany. This workshop was organized by the University of Kassel (prof. Diedrich Bruns), in cooperation with Ankara University (Turkey). A total of 26 students from Kassel,

Ankara, Alnarp and Wageningen did participate. The main theme of the workshop was to develop green links connecting the isle of Wilhelmsburg in the Elbe river with Hamburg City and the Region. The ESPI workshop gained attention in the local and regional media and the results will be part of a book about Wilhelmsburg Island. From Wageningen University the workshop was supported with 3 staff members and 16 students of the Land Use Planning Group.

International seminar for MSC and PhD students

On 23 and 24 November a seminar for excellent master students and PhD students was organized by LIFE (dr Lone Kristensen; Forest & Landscape). The subject of this seminar was Sustainable strategies for urban development and the rural-urban fringe. In total 25 students joined and 10 presentations were given. The purpose of the seminar was to provide insights and different solutions to policy and planning problems related to urban development and rural-urban management. From Wageningen University the seminar was supported with one staff member, three students and one PhD student from the Land Use Planning Group.

The Land Use Planning group has been a part of the organization committee of both events. In addition, through network development the first students started their Erasmus exchange through the ESPI network. In this exchange we mainly support students through our contacts and helping them with their educational program. The students receive their financial support through the Erasmus program of the EU.

Overview bachelor and master students

Table 1. Number of graduates of the bachelor (BLP) and master (MLP) in Landscape Architecture and Spatial Planning (between brackets the number of students that have graduated in the specialization spatial planning).

Table with 3 columns: Academic year, BLP, MLP. Rows: 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009.

Table 2. Number of graduates bachelor (BLP) per calendar year, by specialization.

Table with 6 columns: Specialization, 2005, 2006, 2007, 2008, 2009. Rows: Landscape Architecture, Land Use Planning, Other, Total.



Table 3. Number of graduates master (MLP) per calendar year, by specialization.

Specialization	2005	2006	2007	2008	2009
Landscape Architecture	23	20	17	23	19
Land Use Planning	19	13	15	16	9
Social Spatial Analysis	3	5	7	4	6
Other	0	0	3	0	1
Total	45	38	42	43	35

**Master theses**

This year, the following Master theses have been finished, (co-)supervised by LUP staff members:

1. Balen, B. (LAR 80436) Almere recovering Markermeer.
2. Davidse, B.J. (LUP 80436) Tijdelijke woningbouw als adaptatiestrategie bij klimaatverandering.
3. Domingo Pasto, I. (LUP 80436) Spatial planning as co-evolution.
4. Effting, S. (LUP 80430) The added value of sustainable business sites.
5. Effting, S. (LUP80436) Cradle to Cradle and regional development.
6. Klein Teselink, I. (K100-755) EU beleid voor open ruimte in stadslandschappen.
7. Koops, G. (LUP 80436) Ruimte van burgers: De invloed van burgerinitiatieven op onzekerheid in planning.
8. Kraak, T. (LAR 80436) Zoos in Transition.
9. Matahelumual, S. (LUP 80436) Verkenning van de toepassing van Cradle 2 Cradle bij nieuwe ruimtelijke strategieën in het landelijk gebied.
10. Middelburg, A. (LUP 80436) Samenwerken met agrariërs in het Overijsselse Vechtdal.
11. Muns, S. (SAL 80436) Het betreden van het verleden.
12. Pijnappels, M. (LUP 80436) Spatial planning and water management in Dutch practices.
13. Reintjes, V. (LUP 80439) De rol van financiële en emotionele waarden bij de duurzame verbreding van landbouwbedrijven.
14. Schoemakers, G. (LUP 80424) Dorpse identiteit in interactieve planprocessen.
15. Schutte, C. (LUP 80436) Ruimte van burgers: De invloed van burgerinitiatieven op onzekerheid in planning.
16. Smit, M. (LUP 80436) Vitamine G+: Accent op de sturingsopgave.
17. Tang, P. (LUP 80436) Land Conversion in Transitional China, a case study in Nanjing.
18. Van Leeuwen, B. (SAL 80436) Natuur als communicatieve werkelijkheid.
19. Van Opdorp, R. (LUP 80436) Vinex-ante landschappen.
20. Van Straalen, F. (LUP 80436) Openness, understanding trust and learning: Dutch-German border region.
21. Van Workum, M. (SAL 80433) Attitudes op de Veluwe: onderzoek naar de attitudes van bezoekers en niet-bezoekers van de Veluwe transferia.
22. Verbeek, M. (LUP 80436) Matching the tool to the stakeholders.

**Other educational activities**

In February 2009, Dr. Gerrit J. Carsjens presented a master course on Strategic Environmental Assessment and Planning as a visiting professor at the Mediterranean Agronomic Institute of Chania (MAICh) at Crete, Greece. ◀

**LUP PhD research**

*Gerrit Jan Carsjens Supporting strategic spatial planning : planning support systems for the spatial planning of metropolitan landscapes, 288 p., ISBN 978-90-8585-307-7*

Tutor: Prof. Dr. A.J.J. van der Valk

*Keywords* physical planning, urban planning, geographical information systems, land use planning, environmental management, decision support systems, strategic management

The spatial planning of highly urbanized, metropolitan landscapes is a complex process in which planners and policy makers face different and often conflicting interests, as well as large quantities of information of different kind and quality. In recent decades, a growing number of computer systems, called Planning Support Systems or PSS, have been developed to support planning processes. PSS should provide more and better information and thus lead to a broader exploration of alternatives and a better informed public debate. Unfortunately, recent inventory surveys show that most of the PSS are hardly being used in planning practice. This thesis explores the use of PSS on the basis of two questions: (1) What approaches are needed to guide the planning of the complex and dynamic development of metropolitan landscapes in a more sustainable direction?, and (2) What kind of PSS can support planners and policy makers with this task and what are the basic requirements for successful use in planning practice? The research includes case studies in the Netherlands and Southeast Asia. A general conclusion from the research is that the development of PSS must start with identifying the requirements of intended users, and the context and process in which it is used. The results show that the successful application of a PSS strongly depends on the added value that the users experience. It is important to keep PSS as transparent and simple as possi-



ble, to prevent that users will experience it as a black box. The study also shows that the disciplines involved often have a traditional view of their role in the planning process. This may hinder a more integrated approach and the exploration of alternatives in the beginning of the process. Disciplinary attitudes also prove to be difficult to change, but PSS can act as a tool for communication between disciplines and support a mutual understanding on the joint planning task.

The large numbers of actors and interest groups that today participate in spatial planning processes, require an approach where both expert knowledge and knowledge and experience of practitioners are embedded. This increases the acceptance of the results and effectiveness of implementation. PSS can play a supportive role by introducing these knowledge and experiences systematically in the planning process.

**Jannemarie de Jonge** *Landscape architecture between politics and science : an integrative perspective on landscape planning and design in the network society, 242 p., ISBN 978-90-8585-248-3*

*Tutors:* Prof. Dr. A.J.J. van der Valk, Prof. Dr. J. Koh

*Keywords* Landscape architecture, landscape planning and design, co-design, procedural design theory, planning theory, reflective practice, Aristotle, intellectual virtues, dialogue.

This thesis examines the typical nature of design thinking, which is compared and contrasted with scientific and political thinking. A theoretical framework is formulated and applied to landscape planning and design. As a scientific and professional discipline that serves society, landscape architecture naturally responds to societal changes and demands. Significant changes in professional activities arising from the transition from a hierarchical, industrial society into a networked, knowledge society are explored in a retrospective on Dutch landscape planning and design in the 20th century. During this period the established operational orientation in landscape architecture was accompanied by an emerging strategic design approach. This approach, referred to as 'research by design', is studied in two cases of large-scale landscape planning and design in the Netherlands: the Restructuring of the Sandy Soil Areas programme and the Stork Plan for the Rhine-Meuse floodplain in the central belt of the Netherlands. Landscape design dialogue is described as a knowledge generation and communication method for a strategic design approach to landscape planning.

**Ramona van Marwijk** *These routes are made for walking: Understanding the transactions between nature, recreational behaviour and environmental meanings in Dwingelderveld National Park, the Netherlands, 260 p., ISBN 979-90-8585-437.*

*Tutors:* Prof. Dr. J. Lengkeek, Prof. Dr. P.F.M. Opdam, Dr. Ir. B.H.M. Elands

*Key words:* national parks, recreation, leisure behaviour, footpaths, perception, visitors, Netherlands, landscape experience, nature management, Drenthe

It is insufficiently known how the management of nature landscapes can incorporate the experience value and its perception of visitors. Computer base simulation modeling is a recent development that can help nature managers to influence visitor behaviour in the area, but these models lack information about how the landscape is experienced and valued. This thesis aimed to understand the relationship between environment, recreational experiences and behaviour of walkers in the national park Dwingelose veld. Four types of hikers were distinguished, each with their own interpretation of four environmental values. The main result is that landscapes are valued differently by these hiker groups, which implies that optimizing the landscape for one group is detrimental to the experience value of another. This suggests that nature area management can only optimize hiker experience if parts of the area are developed for different experience profiles. Varying the location and size of car parking lots appeared to be the best approach to manipulate the distribution of visitors over the area. Therefore, managers should not only seek to influence behaviour by route indicators, but also influence the choice of visitors for particular parking lots by providing information about the experience profile. The obtained insight into the relation between behaviour, experience and spatial characteristics appeared to improve the capacity of the simulation model MASOOR to predict visitor distribution in the Dwingelose veld.

**Jeroen Neuvel** *Geographical dimensions of risk management : the contribution of spatial planning and Geo-ICT to risk reduction, 224p., ISBN 978-90-8585-450-0.*

*Tutors:* Prof. Dr. Ir. A. van den Brink, Prof. Dr. H.J. Scholten

*Keywords* regional planning, risk assessment, risk factors, geographical information systems, information technology, flood control, floods, risk management, integrated spatial planning policy

Geographical information systems can offer insights into the possibilities for emergency response and the possibilities for self help during a disaster, such as a flooding or explosions. Based on this information, proposed housing areas can be adapted. The building site can be elevated or 'safe havens' for shelter can be created. Nevertheless, such information was hardly taken into consideration in local spatial planning practices, especially with respect to flood risks. Local governments did not feel themselves responsible for the reduction of potential flood consequences. As a result, urban developments still take place in flood prone areas. Higher tier governments, safety regions and water boards are therefore called on to pay extra attention to lower-tier governments and to support them through guidelines and recommendation about the



management of flood risk and to monitor the implementation of these guidelines and recommendations.

**Robbert Snep, 2009.** *Biodiversity conservation at business sites – options and opportunities, 200 p., ISBN 978-90-8585-305-3*

*Tutors:* Prof. Dr. P. Opdam, Prof. Dr. E.C. van Ierland

*Key words:* biodiversity conservation, business sites, port areas, business park, peri-urban, ecological network, urban ecology, urban bird, natterjack toad, metapopulation, dispersal, urban-rural gradient, butterfly conservation, MCA, ecosystem services.

Business sites are currently not designed and managed to provide added values in terms of sustainability to their (urban) surroundings. This thesis explores the options and opportunities for biodiversity conservation at business sites, with 'biodiversity' thereby being an ecosystem service that may enable business sites to increase their significance for overall sustainability. Concerning biodiversity levels at current business sites, in a comparison with residential areas and urban greenspace Dutch business sites appeared to have – on average - lower densities and diversity of breeding birds. However especially birds of early-successional vegetation (including some Red List species) preferred business sites above other urban land use types, making the business site birds a distinctive urban bird community. Next, to deal with (protected) species in business site environments, a planning and design strategy (the 'habitat backbone') was designed. This strategy combines opportunities for temporary habitat at business site parcels with permanent habitat structures (the 'backbone') at the public space within the business site. The strategy was successfully applied in the case of the natterjack toad (*Bufo calamita*) in the Port of Antwerp (Belgium). In another study, the impact of creating habitat at peri-urban business sites on the occurrence of species (i.e. butterflies) in inner-city residential areas was explored. Results show that creating extra habitat at the business site may have a positive impact on inner-city butterfly densities if the size and management of the business site habitat was optimal for a large source population, and green structures well connect peri-urban source populations and inner-city habitat. In addition, business sites seems also to have a potential in enhancing rural populations of endangered butterflies. In 93 Dutch business site cases, located near vulnerable butterfly populations, these sites have the capacity and character to incorporate additional butterfly habitats and contribute substantially to butterfly conservation. Finally, in a MCA-study different options for biodiversity conservation at business sites were compared, providing the insight that predominantly business sites with large amounts of urban green were preferred by all stakeholders.

This thesis illustrates that by implementing conservation measures at business sites (e.g. at vacant lots and on top of the flat roofs of business sites buildings)

business sites are able to contribute to more sustainability in their (urban) surroundings.

### New PhD projects

**Fennie van Straalen** *Land policy and spatial planning*

In (Dutch) planning practice, land and land policy have an important role. The allocation of housing, industry, nature, agriculture, etc. on scarce land and the provision of sufficient (fair priced) land for designed and wished goals are issues of everyday life. To improve planning processes and the quality of implementation (talk less, do more), insight in the influences, processes and participants in these processes is vital. In this research, different difficulties of land and land policy are studied.

- Changes within land development in the past 30 years
- The use of different land policy instruments within development and the vision of different participants upon land and land policy instruments
- The role of institutions within land policy processes and the role of new participants (without framework) in developments
- The meaning of, and dealing with, dependency within the framework of land and land developments

**Jasper de Vries** *The role of trust in spatial planning*

Planners nowadays recognize the importance of the involvement of local inhabitants, interest groups and other stakeholders as vital partners in planning processes. With the involvement of a growing number of different parties planning processes have become much more complex. In response to this growing complexity both in science and in practice a range of new collaborative or participative approaches are discussed. In these discussions trust is regularly mentioned as an important issue to be dealt with.

Different studies in organization science show that trust can be placed in persons, organizations, institutions as well as in the outcome of processes. In addition, trust can have different forms, for instance personal trust or rational trust and trust can be present in a positive way, just a little, or in a negative way as mistrust. This shows that trust is a highly complex and somewhat elusive concept, and it reveals itself in different forms, forms related to the context and influenced by different related concepts. Therefore this study involves a wide range of proposed empirical contexts to be studied ranging from small scale projects in the Netherlands to the international world of aid in Africa. In addition, the strong links of trust with other concepts like expectations, uncertainties, risks or power also requires a broad scope on conceptual issues.

Through this approach studying the role of trust in spatial planning will highlight, unravel and operationalize a concept which is widely acknowledged as impor-



tant for research as well as for practice but hardly elaborated on in planning literature.

Planned other research activities are:

- Studying the implementation of Natura 2000 in different areas, such as Scotland and De Achterhoek.
- Monitoring outdoor recreation in the Meijendel dunes.
- Monitoring and studying outdoor recreation on Tiengemeten and Oeverlanden Hollands Diep.

**Agnieszka Malinowska** *Ecological networks and climate change*

Ecological networks are worldwide being implemented as spatial systems for the conservation of biodiversity. For tuning the spatial structure of such networks to the aimed biodiversity aspiration level, assessment tools have been developed. For example, the LARCH model is widely used as a tool for assessment of ecological networks in the Netherlands, and is also being applied in various European countries. However in the light of current climate change, new scientific insights and other developments, the current version has three serious flaws. (1) the method is static and cannot deal with landscape dynamics and shifting ranges, (2) it doesn't take into account the increased stochasticity due to climate change, and (3) it is not suitable to deal with heterogeneity and resilience, concepts that are becoming increasingly important for nature conservation planning. The objective of this PhD project is to deal with these problems and derive novel design criteria in terms of minimum area and inter-patch distance and landscape permeability, adding landscape metrics that take into account patch heterogeneity and green infrastructure in the surrounding landscape. With this scope, we provide quantitative information for implementing alternative spatial planning strategies to redesign the Dutch Ecological Network to make it better resistant to climate change. ◀

**LUP Research output**

In the last couple of years the group's research program was focused on such themes as the exploration

**Overview research input and output**

*Table 4 Research input at chair group level in fte.*

	2004	2005	2006	2007	2008	2009	6 year average
Core research staff	1.7	1.8	1.7	1.9	2.1	1.4	1.8
Other research staff	1.9	2.2	3.0	3.4	3.5	2.5	2.8
AIO/OIO	3.3	2.4	3.1	3.0	3.1	n.a.*	n.a.*
Other PhD students	0	0	0	0	0	n.a.*	n.a.*
Total research staff	6.9	6.4	7.8	8.2	8.7	3.9	

\* From 2009 the research schools no longer register research input for PhD candidates

of planning issues in the metropolitan landscape, interdisciplinarity in landscape research, the articulation of eco-system services, risk-analysis, governance, preservation of cultural heritage and landscape development and mixed-land uses. Some major programs have entered the stage of completion or have been completed: the Metroland project and the Protecting and developing project (largely sponsored by NWO) and the Green and blue networks program (sponsored by Habiforum and Wageningen UR research and development funds).

**Award**

In 2009, Paul Opdam and Joan Nassauer received an honorable mention award of the IALE for an outstanding paper in landscape ecology, entitled: "Design in science: extending the landscape ecology paradigm", a 2008 paper that was published in Landscape Ecology. With this paper, the authors suggest that even though landscape ecology has linked pattern to process, like many science disciplines there remains a disconnect between the use of landscape-related science in policy. The authors then provide a framework for addressing this disconnect via use of landscape design. The paper received three separate nominations. Among several reasons provided, the nominators suggested that this paper deserves recognition for reasons that it demonstrates the ability to link the European and American schools of thought and strives to develop a process that creates a seamless connection between ecological science and landscape planning.

**Other research activities**

Dr Marjan Hidding gave a keynote speech at the Conference on Multifunctional Commons which was held from 18 until 20 March 2009 in Slangerup, Denmark. Ir Jasper de Vries was an invited speaker at the Seminar on formal and informal networks in spatial development in Eindhoven, February 16, 2009. In October 2009 Dr Gerrit J. Carsjens and Prof. Arnold van der Valk participated in a two-day visit of a delegation from Nanjing Agricultural University, China. The visit was a follow-up of a visit of a delegation from WUR to Nanjing in 2008. The visits are part of a project to establish a joint PhD program between both universities.



Table 6 Chair group output.

	2004	2005	2006	2007	2008	2009	6 year average
1. PhD thesis	1	1	2	1	1	5	2
2. Academic publications							
a. in refereed journals	6	6	15	14	19	14	12
b. in other journals	0	0	0	0	1	0	0
c. refereed book chapters	4	3	8	7	1	23	8
d. non-refereed book chapters	3	1	9	5	5	1	4
e. monographs and edited books	2	1	5	3	2	3	3
f. proceedings (full papers only)	16	13	10	22	17	9	15
g. scientific reports	6	7	7	7	7	1	6
Total	37	31	54	58	52	56	48
3. Professional publications and products	25	16	31	18	16	23	22
4. Publications for the general public	1	3	1	4	1	5	3

**Publications 2009**

*PhD Theses*

Carsjens, G.J., 2009. Supporting strategic spatial planning : planning support systems for the spatial planning of metropolitan landscapes. Wageningen University, 288 p.

Jonge, J.M. de, 2009. Landscape architecture between politics and science : an integrative perspective on landscape planning and design in the network society. Wageningen University, 242 p.

Marwijk, R. van, 2009. These routes are made for walking: Understanding the transactions between nature, recreational behaviour and environmental meanings in Dwingelderveld National Park, the Netherlands. Wageningen University, 260 p.

Neuvel, J.M.M., 2009. Geographical dimensions of risk management : the contribution of spatial planning and Geo-ICT to risk reduction. Wageningen University, 224 p.

Snep, R.P.H., 2009. Biodiversity conservation at business sites: options and opportunities. Wageningen University, 200 p.

*Reviewed papers in scientific journals*

Beunen, R. & Hagens, J.E., 2009. The Use of the Concept of Ecological Networks in Nature Conservation Policies and Planning Practices. *Landscape Research*, 34(5), 563-580.

Beunen, R., Knaap, W.G.M. van der & Biesbroek, G.R., 2009. Implementation and Integration of EU Environmental Directives. Experiences from the Netherlands. *Environmental Policy and Governance*, 19(1), 57-69.

Biesbroek, G.R., Swart, R.J. & Knaap, W.G.M. van der, 2009. The mitigation-adaptation dichotomy and the role of spatial planning. *Habitat International*, 33(3), 230-237.

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