

## KEY PERFORMANCE INDICATORS (KPI)

We believe that the performance of the Centre can be judged by both the quality and the quantity of our research results and the impact we have on the research community and the wider public.

We have a thriving theory core that produces results at an increasing pace. At the same time we are rapidly approaching the completion of the building phase for our experimental projects — and most of them are already producing impressive results. All these outcomes are described in the Science section (pages 7–41) of this report.

For 2005 we have exceeded the projected KPIs with 42 publications. Amongst these are 4 publications with particularly high impact factor in *Phys.Rev. Letters*. We are proud of the impressive impact our publications have, as measured by actual citations.

We succeeded in recruiting many new postgraduate students (12) and have a steady rate of postgraduate completions (2). The number of Honours students (6) is above our target.

We have exceeded our goals in regard to the number of visitors who came to Australia (21) to see our work and the number of invitations (22) we received to address international conferences. We are seeing longer and more intensive exchanges of students and staff internationally, indicating our increasing visibility. At the same time we are creating more collaborations within the Centre.

We have formed an active international student network with our partners in Paris and Hannover to organize international meetings and we held a workshop jointly with our partners in New Zealand.

At the same time, we have maintained a widespread teaching program at all three Universities, with a total of 22 undergraduate and 8 professional courses in 2005. We have presented our ideas and goals to a wide section of the Australian Physics community. This includes the organisation of the National Congress of the Australian Institute of Physics and many public lectures.

## Awards

Throughout 2005 the following members of the Centre were rewarded with distinctions that indicate the high profile of our staff:

Yuri Kivshar was awarded the Walter Boas Medal of the Australian Institute of Physics. The aims of the award are to promote excellence in research in Physics in Australia and to perpetuate the name of Walter Boas.

Warwick Bowen was awarded the Bragg Medal by the Australian Institute of Physics for the best PhD thesis in Physics in 2004. He was also awarded the Crawford prize for the best Science PhD thesis at the Australian National University in 2004.

The ARC awarded Centre Fellowships to Joseph Hope and Karen Kheruntsyan for their excellent contributions to ACQAO.

Ken Baldwin has been appointed Director at Large on the Board of the Optical Society of America.

Elena Ostrovskaya was awarded a grant from the ANU career development assistance fund and a travel grant from the Australian Academy of Science.

Beata Dabrowska and Sebastian Wüster were awarded travel funds by the Australian Institute of Physics.



Prof Hans-A. Bachor presents Warwick Bowen with the Bragg Medal

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Key Result Area	Performance Measure	Target	Outcome
<b>Research Findings</b>	Quality of publications International Ref. Journals with an impact factor >5	3/20	4/42
	Number of publications/year	20	42
	Number of patents/year	0.3	1
	Number of invitations to address and participate in international Conferences/year	4	22
	Commentaries in professional journals National and international/year	3	4
<b>Research Training and Professional Education</b>	Number of postgraduates recruited/year	5	12
	Number of postgraduates completions/year	4	2
	Number of Honours students/year	5	6
	Number of professional courses to train non Centre personnel/year	2	8
	Number and level of undergraduate and high school courses in the Priority area/year	7	22
<b>International, National and Regional Links and Network</b>	Number of International visitors/year	10	21
	Number of national and international workshops/year	1 international 1 national	2 1
	Number of visits to overseas Laboratories	18	74
	Contact with researchers related to the philosophical aspects of Quantum Physics	2	1
<b>End-user Links</b>	Number and nature of commercialisation activities	2	1
	Number of government, industry and business briefings/year	2	1
	Number of Centre associates trained In technology transfer and commercialisation	2	1
	Number and nature of Public Awareness programs	4	8