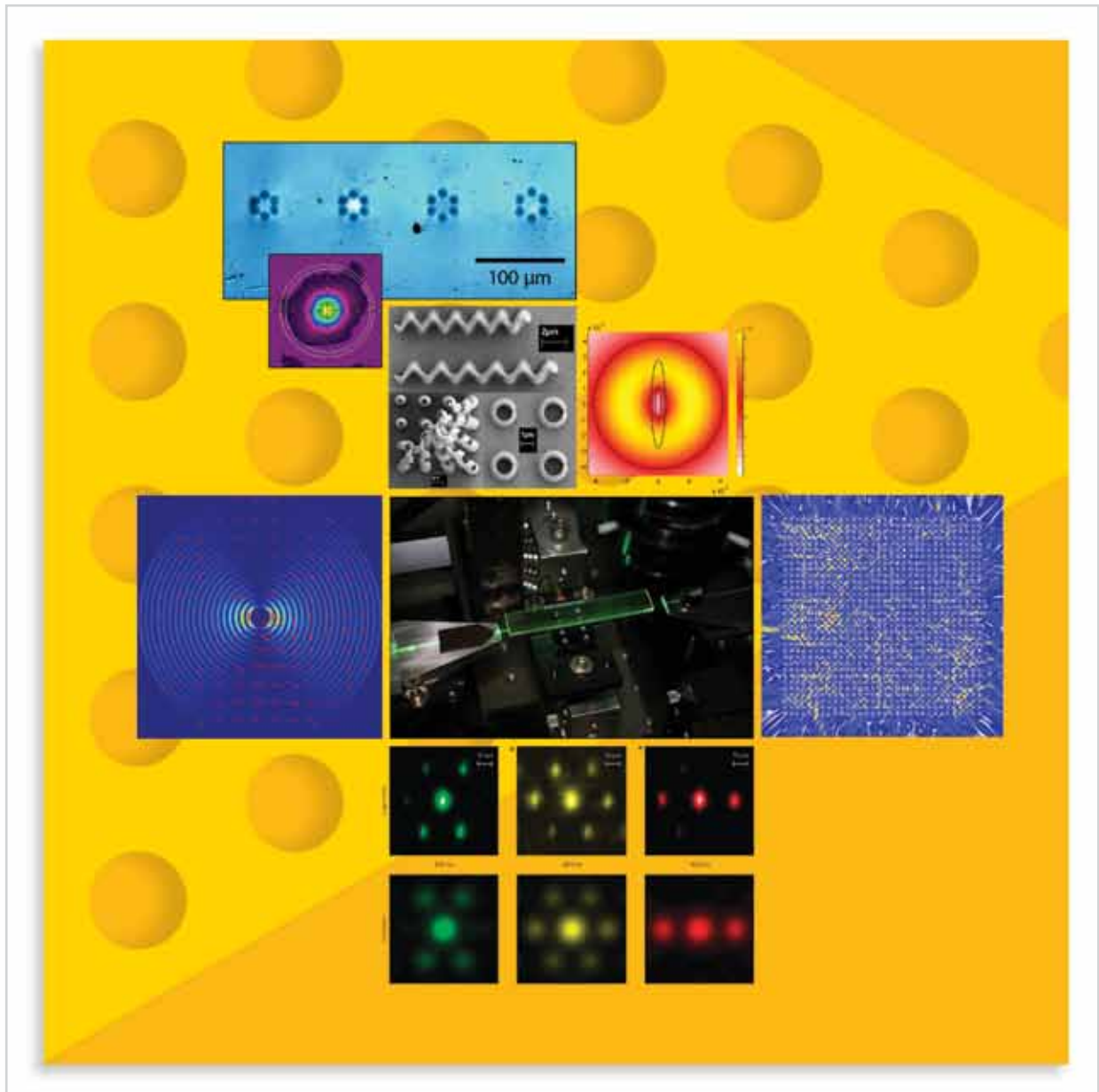


ANNUAL 2009 REPORT



CUDOS

The Centre for Ultrahigh Bandwidth Devices for Optical Systems (CUDOS)

Performance Indicators

Key Result Area	Performance Measure	Target	Outcome
Research findings and competitiveness			
	Quality of publications	Impact factor > 3 for top 40 publications	>5.3 for top 40 publications
	Number of publications	70	71
	Number of patents filed	3	
	Invitations to address and participate in international conferences	15	> 30
	Invitations to visit leading international laboratories and seminars	10 (if seminars at labs)	>>10
	Number and nature of commentaries about the Centre's achievements	5	11 minute segment on Catalyst
	Cash income from Non-ARC grants/ research contracts which contribute to Centre operations	15% of ARC grant 2008 – 20% in 2010	17% (State Commonwealth and industry)
	In-kind income from Non-ARC grants/ research contracts which contribute to Centre operations	10% of ARC grant – 20% in 2010 (person years plus access to collaborator equipment)	>15%
Research training and professional education			
	Number of postgraduates recruited	10	14
	Number of postgraduate completions	5	14
	Number of Honours students	8	5
	Number of professional courses	2	2: Annual Workshop, Quantum workshop
	Participation in professional courses	3	Attendance at short courses at CLEO, OFC, ECOC
	Number and level of undergraduate and high school courses in the priority area(s)	5	6
	Undergraduate "summer schools" in photonics	1 pa	Short course in quantum optics taught by Prof J Sipe (Toronto)
International, national and regional links and networks			
	Number of papers published with international co-authors/reports for international bodies	10 pa	18
	Number of papers published with cross-node authorship	15 pa	18
	Number of international visitors	15 pa	> 30
	Number of collaborative national and international workshops and exchanges with those from outside the Centre	Host 1 national pa and 1 international pa	International: 1 PECS 09 National: 2
	Research projects and engagements with international laboratories	2 during 2008 - 2010	2 in 2009: SOFI (led by U. Karlsruhe) and BOLSTER (Led by Essex U)
End-user links			
	Number and nature of commercialisation activities	1	Participation in CRC planning to capitalise on NBN

Key Result Area	Performance Measure	Target	Outcome
	Number of government, industry and business briefings	2	2: Briefings on commercial opportunities with Finisar, Sapphicon
	Number of Centre associates trained/ing in technology transfer and commercialisation	20 during 2008 - 2010	All students receive introductory training in IP
	Number and nature of Public Awareness programs	5 p.a. visits by school groups, public lectures, radio interviews, appearances in the media	Catalyst (ABC Television); photonic chip simulator in schools; 3 public lectures
Organisational support			
	Annual cash contributions from Collaborating Organisations	As per agreement	As per agreement
	Annual in-kind contributions from Collaborating Organisations	As per agreement	As per agreement
	Number of new Organisations recruited to or involved in the Centre	3 for 2008	None for 2009 (3 recruited in 2008)
	Level and quality of infrastructure provided to the Centre	\$200k p.a. of infrastructure investment	RIBG re-investment in Centre > 200k p.a.
	Annual cash contributions from other organisations	State government grant at 10% of ARC grant	Contribution at 10% level agreed and received
	Annual in-kind contributions from other organisations	Equipment, staff equivalent to \$100k p.a.	Project contributions from collaborators > \$100k equivalent p.a.
Governance			
	Breadth and experience of the members of the Advisory Board	Members drawn from senior roles in academia, government and industry	Members represent all stakeholder areas
	Frequency and effectiveness of Advisory Board meetings	2 p.a. with minutes and actions	1 in 2009
	Quality of the Centre strategic plan	Minimal deviations from plan as presented in Annual Report	Strategic Plan guides the Centre's activities
	Effectiveness of arrangements to manage Centre nodes	3 executive meetings p.a.	3 meetings in 2009
	The adequacy of the Centre's Key Performance Measures	Determined in conjunction with the Advisory Board	Board provided advice on KPIs in 2008
National benefit			
	Measures of expansion of Australia's capability in the priority area(s)	1 tenured faculty staff increase p.a. in photonics across CUDOS; 2 new p/g courses introduced 2008 - 2010 catering for how many students?	New Master Photonics course approved in 2008 for introduction at Sydney, catering for 12+ students
	Case studies of economic, social, cultural or environmental benefits	1 case study to be conducted by 2010	None in 2009