The HEARing Education and Research Network (HEARnet) was launched, December 2012, as an information resource and translational vehicle for hearing research:

- **5,461** total visitors to June 2013
- **3,076** returning visitors to June 2013
- **10,091** people registered
- **8,015** people surveyed for hearing health habits
- **6,181** people completed an online speech in noise test
- **508** registered users

HEARnet Learning offers on-line training courses accredited by Audiology Australia for healthcare professionals:

- ABC Citizen Science released *Sound Check Australia* as part of Science Week, August 2012:
  - "BUILDING ON THE LONG-TERM COLLABORATIONS ESTABLISHED BY THE COMMONWEALTH’S HEARING COOPERATIVE RESEARCH CENTRE, THE AUSTRALIAN HEARING HUB WAS CONCEIVED AS A PARTNERSHIP AMONG RESEARCH, EDUCATION, CLINICAL HEALTH PRACTICE AND INNOVATION"

Australian Hearing Hub launch, Prof Janet Greeley, Executive Dean Faculty of Human Sciences, Macquarie University, April 2013

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**SOCIAL MEDIA**

- **468** followers
- **38** likes
- **HEARNET TV:** over **4,000** video views

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**TRADITIONAL MEDIA**

- **55** peer-reviewed journal articles
- **209** conference presentations (and 6 published conference proceedings)
- **8** non-conference, invited presentations
- **60** media and newsletter articles (and 4 media statements)

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**EDUCATION**

- **38** PhD students
- **1** MPhil student
- **FROM 5** universities,
- **WITH 33** academic supervisors and
- **14** industry supervisors
Food and Drugs Administration (FDA) granted approval for HEARLab, providing access to the US market, in addition to Europe and Australia.

HEARLab was also a finalist for 3 awards:

**CRC Association**
Excellence in Innovation Award
(WINNER)

**Medical Technology Association of Australia**
Kerrin Rennie Award (FINALIST)

**Australian Museum**
Jamie Callachor Eureka Prize for Medical Research Translation (FINALIST)

$ Plus **one grant** from the New South Wales Government, Medical Device Fund for $662,115

The **Cochlear Implant Magnetoencephalographic Imager** (CI-MEG or MEGIII) was launched in October 2013 at Macquarie University, providing an internationally unique imaging facility for use with cochlear implant recipients.

**AWARDS**

**3 AWARDS FOR INNOVATIONS**
(in addition to HEARLab awards):

- NAL–NL2 finalist for Australian Museum 2012 Eureka Prizes for Commercialisation of Innovation
- Self-fitting hearing aid finalist in The Australian Innovation Challenge
- LOCHI study selected by Research Australia for *Cook for a Cure*

**3 AWARDS FOR PEOPLE:**

- Adj Prof Harvey Dillon received *Callier Prize* for Communication Disorders
- Ms Helen Glyde, amongst six finalists for the CSIRO *Early Career Researcher Award*
- Prof Louise Hickson received the *International Award in Hearing* from the American Academy of Audiology
EXECUTIVE SUMMARY

We are delighted to present some of the HEARing Cooperative Research Centre’s highlights from 2012/13.

It is pleasing to note that good progress has been made in achieving the HEARing CRC’s aims of providing solutions that enhance lifelong hearing retention, mitigate the effects of hearing loss and that increase clinical efficiencies. This is testimony to the value provided by our Science Advisory Group under the Chairmanship of Prof Robert Patuzzi, and our management team in ensuring that our research remains focused on delivering end-user outcomes and impact.

A key factor in achieving successful translation has been the launch of HEARnet® and HEARnet Learning®, delivering accredited online training focusing on CRC technology and innovation, and already boasting over 500 registered users.

End-users are also benefitting from commercialisation of our research, as evidenced by examples such as an increase in the number of international hearing aid companies licensing NAL-NL2 or new sales of HEARLab® in the United States of America following FDA approval. These commercial successes have also generated additional revenues that have been reinvested in CRC research.

During the year, HEARing CRC outcomes were recognised by a number of awards: HEARLab received a CRC Association Excellence in Innovation Award, and was also a finalist in the Kerrin Rennie Award for Medical Technology; and the CRC’s self-fitting hearing aid was a finalist in the Australian Innovation Challenge. In addition, Adj/Prof Harvey Dillon and A/Prof Bob Cowan were finalists in the Australian Museum’s NSW Health Jamie Callachor Eureka Prize for Medical Research Translation for HEARLab. International accolades were also awarded to two of the CRC’s Key Scientists: Prof Louise Hickson receiving the prestigious International Award in Hearing from the American Academy of Audiology and Adj/Prof Harvey Dillon receiving the biennial Callier Prize in Communication Disorders from the University of Texas.

The Board was especially pleased that one of our PhD students, Ms Helen Glyde, was selected amongst the six finalists for the CSIRO sponsored Early Career Researcher Award at the CRC Association Awards. This was the second year in a row that the HEARing CRC has had a finalist for this prestigious early career award, reflecting well on the value-added skills training being provided in our Education program. It is pleasing to report that over 40% of our 39 PhD and MPhil students have already completed their studies and have moved into roles in industry, clinical and research environments.

In April, the Australian Hearing Hub (AHH) at Macquarie University was officially opened with an inaugural Symposium managed by the HEARing CRC. The AHH will provide the CRC with a Sydney base, as well as access to new facilities, including the world’s only MEG imager that can be used with cochlear implant users, and a new three dimensional real-world acoustic test environment.

Good governance is key to successful outcomes, and we would like to acknowledge our Directors for their contributions to strategic oversight of research, education and commercial activities through the Board and its Committees.

The HEARing CRC has benefitted greatly from our legal advisor, Ms Jenni Lightowlers (FAL Commercial Lawyers), and from our IP attorneys Mr Lorne Wood-Roe (Adams Pluck) and Dr Steven Borovec (Churchill Attorneys). Our individual Members must be acknowledged for their ongoing support and participation. Finally, we also give special thanks to the adults, children and their families, who give so generously of their time to participate in our research.

DR MICHELE ALLAN
ACTING CHAIR

A/PROF ROBERT COWAN
CHIEF EXECUTIVE OFFICER
COMMUNICATION

A comprehensive, internal communications strategy guides the delivery of the HEARing CRC's internal and external communications. Continuous and regular updating of the HEARing CRC website, social media and member communications ensure that information is made available in a timely manner, and that is accessible to all stakeholders. The HEARing CRC’s website is a key online resource that provides current and comprehensive information on the activities and achievements of the CRC. The website is designed to be user-friendly and accessible to all, with clear links to information on the HEARing CRC’s internal and external communications, as well as to the HEARnet and Media Manager. The HEARing CRC's communications are tailored to the needs of its stakeholders, and utilise a range of channels, including print, electronic and social media. The HEARing CRC has established a comprehensive communication infrastructure that ensures research is focused on identified end-user needs, and encourages rapid take-up and application of research findings. The HEARing CRC secure member-only webpages, a quarterly Soundbytes newsletter and HEARing CRC Magazine are just some of the ways in which the HEARing CRC engages with its stakeholders. The HEARing CRC is committed to ensuring that its communication activities are effective, efficient and consistent, and that they are aligned with the organisation’s overall strategy and objectives.

ENGAGING THE PUBLIC

The HEARing CRC’s communication strategy is designed to engage the public in the organisation’s activities and achievements. The HEARing CRC’s communication activities are designed to inform and educate the public about hearing loss and hearing aids, and to promote awareness of the importance of hearing health. The HEARing CRC uses a range of channels, including print, electronic and social media, to reach its target audience. The HEARing CRC’s communication activities are designed to be engaging, informative and accessible, and they are tailored to the needs of the public. The HEARing CRC’s communication activities are designed to be consistent with the organisation’s overall strategy and objectives, and they are aligned with the organisation’s communication infrastructure.

THE HEARING CRC BOARD OF DIRECTORS IS ACCOUNTABLE TO THE COMMONWEALTH AND OUR MEMBERS FOR GOVERNANCE, OVERSIGHT AND CORPORATE ACTIVITIES.

The HEARing CRC Management Team is responsible for the implementation of all activities outlined in this report. The HEARing CRC Management Team includes the Chief Executive Officer, the Technical Manager, the Finance Manager, and the Communications and Education Manager. The HEARing CRC Management Team is supported by a team of administrative staff, including the Office of Hearing Services, the Australian Hearing Services, and the HEARworks Pty Ltd. The HEARing CRC Management Team is accountable to the Commonwealth and our members for the implementation of all activities outlined in this report. The HEARing CRC Management Team is responsible for ensuring that all activities are aligned with the organisation’s overall strategy and objectives, and that they are delivered in a timely and effective manner.

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Scanning Electron Microscope image of mouse cochlear sensory epithelium cells showing irregular organisation. These mice have a mutation in their myosin VI gene and are congenitally deaf. Image courtesy of Louise Williams, Murdoch Childrens Research Institute.

COMMUNICATION

The HEARing CRC employs both general and specific approaches to communication with key end-user areas, including professionals and the general public. Communication strategies are designed to engage and encourage the broader community to support the aims and objectives of the CRC.

A comprehensive internal and external communications plan is in place to assist in achieving the strategic goals. The plan includes a variety of communications channels to deliver outcomes to improve clinical practice.

HEARworks Pty Ltd facilitates the board, sub-committees, and advisory groups. HEARworks also provides a range of communication channels to take-up and application of research outcomes. The CRC is overseen by a strategy steering group, which meets periodically to review the CRC’s strategy. The CRC strategy is vital to ensure research is focused on identified end-user needs, and encourages rapid take-up and application of research outcomes.

HEARworks Pty Ltd also coordinates and manages the CRC’s website, including internal group email networks, a comprehensive member-only webpages, and social media networks. The CRC secure member-only webpages include internal group email networks, a comprehensive member-only website with valuable resources for professionals and the community. Members, geographically dispersed across New South Wales, Queensland and Victoria, work collaboratively online for the CRC. The website includes internal group email networks, a comprehensive member-only website with valuable resources for professionals and the community.

FACEBOOK

The HEARing CRC’s research was profiled in a Cosmos Magazine feature article about the future of hearing, in the multi-award winning iPad app version of the magazine, voted ‘best newsstand app of 2012’ by Apple. The HEARing CRC employs both general and specific approaches to communication with key end-user areas, including professionals and the general public. Communication strategies are designed to engage and encourage the broader community to support the aims and objectives of the CRC.

The HEARing CRC’s research was profiled in a Cosmos Magazine feature article about the future of hearing, in the multi-award winning iPad app version of the magazine, voted ‘best newsstand app of 2012’ by Apple.

There have been some exceptional world class successes arising from this CRC...
THERE HAVE BEEN SOME EXCEPTIONAL WORLD CLASS SUCCESSES ARISING FROM THIS CRC...
PREVENTING HEARING LOSS
HEARING LOSS IS THE SECOND MOST COMMON DISABILITY IN AUSTRALIA AND A LEADING CAUSE OF SOCIAL, PROFESSIONAL, AND SOCIAL IMPACT, AS WELL AS CARING FOR HEARING DEVICES. THE HEARING CRC IS COMMITTED TO THE DEVELOPMENT OF NEW INNOVATIONS AND TECHNOLOGIES THAT IMPROVE AND ENHANCE EXISTING devices FOR HEARING.

REMEDYING HEARING LOSS
HEARING DEVICES OFFER EFFECTIVE MANAGEMENT SOLUTIONS FOR HEARING DISORDERS, AND ARE OFTEN CENTRAL TO HEARING REMEDIATION. THE HEARING CRC IS COMmitted TO THE DEVELOPMENT OF HEARING DEVICES OFFER EFFECTIVE MANAGEMENT SOLUTIONS FOR HEARING DISORDERS, AND ARE OFTEN CENTRAL TO HEARING REMEDIATION. THE HEARING CRC IS COMMITTED TO THE DEVELOPMENT OF NEW INNOVATIONS AND TECHNOLOGIES THAT IMPROVE AND ENHANCE EXISTING devices FOR HEARING.

HEARLab at The University of Western Sydney
HEARLab is a CRC-funded Centre of Research Excellence (CoE) working on hearing disorders and hearing loss. HEARLab's research is focused on understanding the causes of hearing loss and developing new treatments and technologies to improve hearing outcomes. HEARLab is led by Professor John Gloster from the University of Western Sydney, with a team of world-renowned experts in hearing research. HEARLab has been successful in securing funding from the Australian Research Council, as well as from industry and government sources. HEARLab's research has led to the development of new hearing aids and technologies, and has contributed to the understanding of the mechanisms underlying hearing loss.

Central Auditory Processing Disorder (CAPD)
CAPD is an umbrella term for a group of disorders that affect the way the brain processes sound. These disorders can be caused by damage to the inner ear, the brain stem, or the auditory cortex. CAPD can cause difficulty listening in background noise, and can be associated with other conditions such as ADHD and dyslexia. The Longitudinal Outcomes of Children with Hearing Impairment (LOCHI) study is a study of children with hearing loss, which is being used to improve outcomes for children with CAPD. The study is being conducted by HEARLab, in collaboration with Macquarie University's Centre for Cognitive Auditory Processing.

ENHANCING ACCESS
HEARING LOSS IS UNIQUE TO THE INDIVIDUAL AND SPECIALIST CLINICIANS ARE REQUIRED TO ASSESS AND DIAGNOSE BOTH THE DEGREE OF HEARING LOSS, AND ITS EFFECTS ON COMMUNICATION. DEPENDING ON THE TYPE OF HEARING LOSS, THESE SPECIALISTS CONTINUE FOR FOUR TO SIX WEEKS AND THEN PROGRAM (OR MAP) THE IMPLANT FOR THEIR PATIENT'S SPECIFIC NEEDS. THE MACHINE, AND ASSOCIATED FUNCTIONAL MODULES, ARE BEING TRIalled TO DETERMINE THEIR VALUE IN IMPROVING OUTCOMES FOR PATIENTS WITH HEARING LOSS.

Our patented superdirectional algorithm. Built-in microphones and speakers technology and work is ongoing to also integrate partners such as State Cover Mutual insurers. Construction Sound Meter app, in association with HEARnet Learning for the ACA software. Automatic Cortical Audiometer.

Analysis is ongoing and the CRC hopes to publish results in the public domain using relevant outcomes. There is strong cooperation with testing. For infant and elderly patients who cannot cooperate with testing. For infant and elderly patients who cannot cooperate with testing. For infant and elderly patients who cannot cooperate with testing. For infant and elderly patients who cannot cooperate with testing. For infant and elderly patients who cannot cooperate with testing. For infant and elderly patients who cannot cooperate with testing.
Our patented superdirectional array processing algorithm. Built-in microphones and speakers enable the protectors to combine awareness of sounds in the local environment with excellent processed sound. PDT conserves and e-Tone as novel approaches to protectors is well progressed, showing demonstrated significant improvement in sound perception in background noise. Our patented superdirectional array processing technology and work is ongoing to also integrate new innovations and technologies that improve and enhance existing devices for users. Often central to hearing remediation. The Hearing CRC is committed to the development of new innovations and technologies that improve and enhance existing devices for users. Remedying Hearing Loss

Hearing devices offer effective management solutions for hearing disorders, and are often essential for engagement in work, home, and leisure activities. The Hearing CRC is in the forefront of researching new innovations and technologies that improve and enhance existing devices for users. Remedying Hearing Loss

Current estimates suggest that only 25% of adults who have been diagnosed with hearing loss have received a hearing device. This program aims to increase the uptake of hearing devices through a professional training module. We are investigating the ways in which hearing devices can be more effectively marketed and sold to ensure that hearing loss is managed appropriately.

Hearing loss is the second most common disability in Australia and New Zealand, affecting one in five people. It affects all age groups and has a significant personal, professional, and social impact, as well as costing the economy millions of dollars each year. To this end, the Hearing CRC is committed to improving the quality of life of people with hearing loss through research and development that maintains wearers’ sound perception in background noise.

For more information visit our website at hear.org.au or by calling 1300 HEAR CRC.
**PREVENTING HEARING LOSS**

Hearing loss is the second most common disability in Australia, affecting at least 20% of the population. Preventative measures are crucial to protecting against hearing loss. Our research is focused on developing technologies that can help prevent hearing loss, including noise control systems and cochlear implants.

**REMEDIATING HEARING LOSS**

Hearing devices offer effective management solutions for hearing disorders, and our research is focused on developing new technologies that can improve the performance of these devices. Our work includes developing new algorithms for hearing aids, improving the accuracy of hearing tests, and evaluating the efficacy of new implant technologies.

**REHABILITATING HEARING LOSS**

Current technologies suggest that only 20% of people with hearing loss are successfully managed by conventional hearing devices. Our research is focused on developing new methods to improve the efficacy of these devices, including personalized hearing solutions and personalized training.

**Research Highlights**

- **Hearing Loss is the Second Most Common Disability in Australia**
  - Our research focuses on developing technologies that can help prevent hearing loss, including noise control systems and cochlear implants.

- **Hearing Devices Offer Effective Management Solutions**
  - We are focused on developing new technologies that can improve the performance of hearing devices, including new algorithms for hearing aids and improving the accuracy of hearing tests.

- **Personalized Hearing Solutions**
  - We are developing new technologies that can improve the efficacy of hearing devices, including personalized hearing solutions and personalized training.

**Research**

- **Hearing Loss Prevention and Management**
  - Our research is focused on developing technologies that can help prevent hearing loss, including noise control systems and cochlear implants.

- **Hearing Device Performance**
  - We are focused on developing new technologies that can improve the performance of hearing devices, including new algorithms for hearing aids and improving the accuracy of hearing tests.

- **Personalized Hearing Solutions**
  - We are developing new technologies that can improve the efficacy of hearing devices, including personalized hearing solutions and personalized training.

**Impact**

- **Prevention**
  - Our research can help prevent hearing loss, which affects at least 20% of the population.

- **Management**
  - We are developing new technologies that can improve the performance of hearing devices, which can help millions of people with hearing loss.

- **Rehabilitation**
  - Our research can help improve the efficacy of hearing devices, which can help millions of people with hearing loss.

**Future**

- **Preventative Technologies**
  - We are developing new technologies that can help prevent hearing loss, including noise control systems and cochlear implants.

- **Improved Hearing Devices**
  - We are focused on developing new technologies that can improve the performance of hearing devices, including new algorithms for hearing aids and improving the accuracy of hearing tests.

- **Personalized Hearing Solutions**
  - We are developing new technologies that can improve the efficacy of hearing devices, including personalized hearing solutions and personalized training.

**Conclusion**

Our research is focused on developing technologies that can help prevent hearing loss, improve the performance of hearing devices, and improve the efficacy of hearing devices. We believe that these technologies have the potential to significantly improve the lives of millions of people with hearing loss.
RESEARCH HIGHLIGHTS

Our perception-dependent signal processing (PSP) algorithms have yielded promising improvements in speech recognition, particularly in Reverberant Listening and Speech in Noise. PSP algorithms have also been combined with other technologies, such as BEAMFORMER, to improve performance in challenging environments.

Another area of research at the CRC is the development of novel personalized therapeutic devices. Our team has been working on the development of a superdirectional microphone array, which uses advanced signal processing techniques to improve speech recognition in noisy environments.

In association with WorkCover NSW, the CRC is conducting small-scale clinical trials to evaluate the effects of different hearing protection devices on occupational hearing loss. These trials are focused on assessing the effectiveness of new technologies compared to traditional methods.

The HEARing CRC is dedicated to improving the lives of people with hearing loss through research and technology development. Our team is committed to finding new ways of ensuring equal access to hearing health services for all, particularly in rural and remote areas.

CENTRAL AUDITORY PROCESSING DISORDER (CAPD) is a neurological condition that affects the way the brain processes sounds. It is estimated to affect at least 64% of adults (over 55 years) in Japan and New Zealand, and up to 6% of school-aged children in the United States.

The study of CAPD has been aided by technological advances, such as the development of new diagnostic tools and the use of advanced signal processing techniques. The CRC is working to improve our understanding of CAPD and develop new treatments to help those affected.

A training module on the Nucleus 6 System is now available on the HEARnet Learning for the ACA software. This module is designed to provide audiologists with the skills and knowledge needed to deliver effective care to patients with cochlear implants.

A key element of this is the patient experience of hearing assessment and rehabilitation. A key element of the patient experience is the use of teleaudiology to provide remote mapping services. Research indicates that teleaudiology can be used as accurately as conventional face-to-face assessment, demonstrating that remote mapping services are a viable alternative.

A training module is now available on the HEARnet Learning for the ACA software. This module is designed to provide audiologists with the skills and knowledge needed to deliver effective care to patients with cochlear implants.

EQUAL ACCESS TO HEARING HEALTH SERVICES FOR ALL.
This CRC...
HEARnet provides detailed and impartial information about hearing loss and rehabilitation, aimed primarily at the general public, and medical and allied health professionals.

HEARnet includes a searchable information library and links to high quality, relevant websites in the field. The Interactive Ear application enables users to identify different types of hearing loss and currently available matching technology.

HEARnet’s dedicated Researchers area provides up-to-date research outcomes from the HEARing CRC which, together with the library function, creates a searchable on-line database of publications, custom-written fact sheets, guidelines, technical reports, posters, conference presentations and articles.

Opportunity exists to expand these areas of HEARnet in the future to underpin campaigns, such as improving community knowledge about the risks of noise-induced hearing loss through lifestyle choices.

HEARnet Learning is the heart of HEARnet’s dedicated professional area, aimed at meeting the needs of healthcare professionals including audiologists/audiometricists, ENT surgeons and GPs. Accredited for Continuing Professional Development programs by Audiology Australia and other professional associations, the portal delivers online training in the form of interactive lectures and pre-recorded seminars.

Currently there are over 500 registered users able to access two lectures and five seminars.

Learning content is organised into five main topic areas: hearing rehabilitation, hearing preservation, teleaudiology, higher skills/specialisations and hearing and society. Material is both practical and theoretical in nature, often developed as translational end-points to CRC projects.
EDUCATION AND TRAINING

POSTGRADUATE

The HEARing CRC has enrolled 39 researchers in PhD and MPhil projects through our five university Members.

By embedding higher degree projects in our broader research programs, all students have access to experienced supervisors from research, clinical and/or commercial backgrounds, helping the HEARing CRC to deliver work- and industry-ready graduates. There are also 20 Masters of Clinical Audiology and Masters of Engineering students currently affiliated to CRC research projects. These students also benefit from participating in end-user focused research projects.

The annual PhD Skills Workshop, first introduced in 2010/11, delivers training in non-traditional areas such as project management, presentation skills, and intellectual property (IP), complementing the learning opportunities available through university Member’s programs.

The Workshop also incorporates a research Symposia, in which students practice presentation skills and critique one another’s work. This year the meeting was held in association with the inaugural Australian Hearing Hub Conference in Sydney. Audience members included the broader hearing research community as well as fellow PhD students.

The CRC’s comprehensive Education program provides an environment in which students can build their personal and professional networks, expanding their career options to include positions in industry and clinical practice.

TO DATE ALMOST 40% OF OUR PHD AND MPHIL STUDENTS HAVE COMPLETED THEIR STUDIES, MOVING ON TO RELATED CAREERS IN RESEARCH, INDUSTRY AND CLINICAL ENVIRONMENTS.

PROFESSIONAL

This program draws on a range of activities to support clinical and research professionals working in the field:

**AUDIOLOGY AUSTRALIA**
is the peak professional body for audiologists and has an established Continuing Professional Development Program. The CRC contributes to this Program through workshops, lectures and seminars and more recently through HEARnet Learning.

**COCHLEAR LTD**
is the leading global expert in implantable hearing solutions. Since 1992, the CRC has worked with Cochlear to deliver highly regarded, International Cochlear Implant Workshops as well as the Visiting Implant Specialists to Australia Program.

**THE UNIVERSITY OF MELBOURNE SPECIALIST CERTIFICATE IN CLINICAL RESEARCH**
(Biomedical Research Management) is delivered annually by CRC CEO A/Prof Robert Cowan in association with University of Melbourne Commercial specialist John Bates.
COMMERCIALISATION AND UTILISATION

HEARING CRC RESEARCH PROVIDES SOLUTIONS TO IDENTIFIED END-USER NEEDS. INVOLVING END-USERS FROM CONCEPTION TO TRANSLATION ENSURES SUCCESSFUL COMMERCIAL OR CLINICAL APPLICATION.

Research with commercial applications is patented and taken to market through our hearing industry partners Cochlear and Siemens, helping them to maintain or develop their competitive advantage. Third party licencing is employed to broaden technology outreach (for example NAL-NL2 prescription procedures for hearing aid fitting, licenced to all major international hearing aid companies) or in cases where the CRC identifies new SME or international industry partners (for example Frye Electronics, licenced to manufacture and market HEARLab).

Take-up and use of clinical outcomes is driven through involvement of end-users, as well as raising awareness of evidence-based outcomes through our Continuing Professional Development activities, in particular HEARnet Learning.

RESEARCH OUTCOME

COMMERCIAL ROUTE

CLINICAL ROUTE

PATENTS AND TRADEMARKS

12 patent applications filed 2012/13
5 patents granted 2012/13
82 patents in overall portfolio
14 trademarks in overall portfolio

GUIDELINES

CONTINUING PROFESSIONAL DEVELOPMENT

Face to face
Online

COMMERICAL RELEASE

7 technologies with ongoing agreements with various licensees
Cochlear Ltd’s Nucleus 6 implant system released 2012/13

Front Cover image: Child with bilateral cochlear implants, at Sydney Cochlear Implant Centre

Page 1: Australian Hearing Hub launch
Page 2: HEARLab and MEGIII at Macquarie University
Page 3: World Congress of Audiology 2014 flyer
Page 5/6: Beamformer being tested in driving simulator at the National Acoustic Laboratories
Page 8: Remote cochlear implant mapping - HEARnet Learning module launch

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THE HEARING CRC IS A MULTIDISCIPLINARY COLLABORATION OF FIVE CORE AND 21 SUPPORT MEMBERS, EACH OF WHICH CONTRIBUTES SPECIFIC EXPERTISE AND INFRASTRUCTURE TO OUR RESEARCH, COMMERCIALISATION AND EDUCATION PROGRAMS.

CORE MEMBERS

SUPPORT MEMBERS

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