



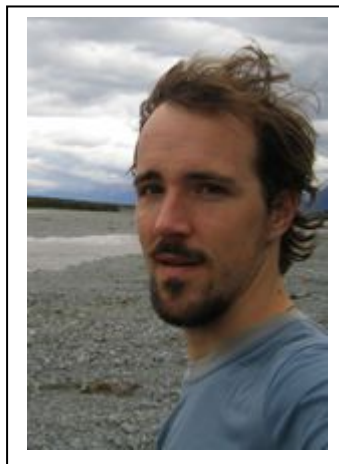
## NEWSLETTER FOR TEAMS #1

Hi all,

It was good to meet you in the November site visits. If I missed you, my name is **Tim Bishop** and I am the SHaC09 coordinator; here to get the ball rolling for SHaC09. I invite you to read this newsletter, read our website and wiki and keep in touch – we will work together to make this a great challenge.

Kind regards,  
Tim

## MEET TIM BISHOP – SHaC09 COORDINATOR



SHaC09 is very pleased to welcome co-ordinator **Tim Bishop** to the team based here at Otago Polytechnic. Cast into the deep end from day one, Tim barely had his foot through the door when he was sent off on a tour of New Zealand to introduce the Sustainable Habitat Challenge to the country. You may have met him at one of the presentations.

Fortunately Tim is well placed to take on this role, and well informed about some of the issues the Challenge is likely to tackle. Having previously studied engineering in the USA, he is now completing his Masters degree in Energy Studies at the University of Otago focussing his research on energy use in residential housing. To this end he has recently surveyed a sample of the Dunedin housing stock with Colin Smithies and Paul Thorsnes of the University's Economics Department, and contributed to several reports and papers on upgrading state houses for thermal comfort and low energy use with Bob Lloyd in the Department of Physics. Tim is also the Treasurer for Solar Action, a renewable energy advocacy group based in Dunedin.

Over the next few months, Tim will be working under the direction of our national steering committee members, securing the services of our experts, finalising the judging criteria, rules and regulations and helping teams prepare for entry into the SHaC09 Challenge. A tall order for sure, but planning is well under way; you'll be hearing a lot more from Tim in the coming months.

## ABOUT THE CHALLENGE

**SHaC09, the Sustainable Habitat Challenge is a national project for collaborative, tertiary led teams to design, develop, and build sustainable housing in their local community.**

The key outcome for the Challenge is to bring ideas and methods for low energy, low resource housing to our communities and through building them, show this life to be practical and desirable. By involving student and staff designers, architects, planners, builders, engineers, and others and pursuing a housing development from concept, to project development, to consenting and building, the challenge will prove practical a number of low-energy, low-resource designs.

The challenge is a great opportunity to link theory with practice. It will demonstrate that we are able to live our lives using fewer resources than our current situation.

The collaborative teams from each region will develop a vision of a way of life that requires significantly less resources. Then they will design and build a home for their region that supports and encourages that low-energy, low-resource lifestyle. Teams will have to prioritize their goals in order to provide what they think is the best way to develop New Zealand sustainable housing for the future. They will have to show (by simulation) how their projects result in significantly lower resource use, the result of efficiency gains and adaptive behaviours. Good design will make the new or retrofitted home a desirable and delightful improvement on how we live today. After the challenge simulations will be compared with real performance, and be the subject of a published report.

The challenge is completed when teams have communicated with their wider community about the choices they have made in their design, the benefits, and how the design ideas can successfully be used again.

Teams are not limited to designing and building a single family suburban home. Retrofits and higher density infill housing and multi-unit dwellings that encourage switching from one type of housing to another are welcomed.

## TIMELINE

- February 2008: Registrations Open**
- March 2008: Lecture Series for Teams begin**
- April 2008: Registrations Close**  
At this point each team must submit:
- A list of team members and their roles
  - An outline of the overall team vision that will focus the design (what occupants do teams want to design for? What is the design brief and the resource performance targets?)
  - Fundraising targets and plan
- May/June 2008: Successful Applicant Teams Notified**
- October 2008: Status Report 1 due**  
At this point each team must submit the following:
- Concept drawings (ideas)
  - General status report
  - Fundraising progress report
- December 2008: Status Report 2 due**  
At this point each team must submit the following:
- Working Drawings (Minimum required by local Council)
  - General status report
  - Final Report of Funds
- February 2009: Status Report 3 due**  
At this point each team must submit the following:
- Construction Drawings (Ready for build)
  - General status report
- October 2009: Houses to be complete for judging**
- November 2009: SHaC 09 Symposium**
- 2010: Report on house monitoring results due**

## FUNDING

On successful application, Teams will be granted a small stipend that can be used to start team funding, for example, to sponsor a coordinator. Significant regional and national funding sources and partnerships have been identified for successful applicant teams.

# RESEARCH OUTCOMES

SHaC 09 is a challenge for the Tertiary sector and we recognise that staff participation and research to do with SHaC qualifies for PBRF eligibility. There are a variety of ways we, the coordinators can ensure this, as well as individual staff members:

## **1. Present a paper at the SHaC 09 Symposium (November 2009)**

The SHaC 09 Symposium will have 3 components to it:

- a) Academic symposium
- b) SHaC 09 prizegiving
- c) Team presentations which are open to the public

Abstracts for the Academic Symposium will be asked for by August 2009 and vetted by an appointed referee team (participation in the Referee Team will also be PBRF eligible)

**2. Publication in SHaC 09 Proceedings.** This will be published in 2010 after the SHaC 09 Symposium.

**3. Mentoring and collaborative efforts are eligible for Contribution to the Research Environment components of the PBRF.** These include mentoring relationships such as a University working with a Polytechnic, or a Polytechnic staff member mentoring a student.

**4. Team Leaders of SHaC 09 teams will be eligible for "Contribution to the research Environment"** through encouraging and ensuring collaborations.

**5. The "House" that is built and open/available to the public will be considered a shared output in PBRF terms.** The fact that it is open and accessible is critical to qualification.

**6. Team presentations at the SHaC 09 Symposium and any other virtual or actual tours is considered a shared research output.**

**7. Papers delivered regarding the "House" or aspects of it, for instance, water management, energy modelling or management, or other ideas and techniques will be considered a Research Output** and can be specific to each researcher's area of expertise.

**8. Each team will be expected to write an article about its involvement in SHaC 09** and this will also be PBRF eligible.

**9. Participation in Steering Group.** The SHaC 09 Steering Group is made up of a number of national experts and will be considered a rotational group. Participation in this group is considered as facilitating networks and thus PBRF eligible.

The SHaC 09 Coordinator is ensuring that staff involvement in SHaC 09 is recognised within PBRF terms.

*Please circle this email to parties who may be interested in SHaC09. To join our mailing list, send a blank email to [info@shac.org.nz](mailto:info@shac.org.nz)*

A number of other details about the challenge are available on our wiki, at [http://www.greymatter.co.nz/otagowiki/index.php/SHaC\\_09](http://www.greymatter.co.nz/otagowiki/index.php/SHaC_09)