



## CSIRO Land, Water and Ecosystems seminar series

### Introduced dung beetles as models in ecological and evolutionary developmental biology

**Professor Armin Moczek**  
**Indiana University**

CSIRO invites you to the following seminar. Please feel free to forward this invitation to colleagues and collaborators outside of CSIRO. We look forward to seeing you at this event. RSVP not necessary.

**Tuesday 10 April 2018**  
**10:00am - 11:00am**

Acacia Meeting Room, Synergy  
Black Mountain Laboratories,  
Clunies Ross Street, Black  
Mountain, Canberra ACT

For enquiries about the seminar series or to nominate to present a seminar, please contact

**Dr Yun Chen**

**Susan Cuddy**

E: [yun.chen@csiro.au](mailto:yun.chen@csiro.au)  
P: 02 6246 5729

E: [susan.cuddy@csiro.au](mailto:susan.cuddy@csiro.au)  
P: 02 6246 5705



#### Subscribe to the series

If you would like to receive invitations to future seminars in this series, please subscribe by clicking the link below:

[Yes, please subscribe me](#)

[Unsubscribe](#)



Click to download this event's eCalendar file. Once downloaded, run the file to add the event to your Outlook calendar.

Welcome to CSIRO WebEx Conferencing featuring: audio, video and presentation capabilities. You can join this conference from:

#### Desktop or Mobile Devices

<https://csiro.webex.com/csiro/j.php?MTID=m48088536d632facfe35c5f4e226b21fc>

Once connected to your meeting remember to start your audio and video

#### Video Conferencing Rooms

Use the remote control or touch panel and dial the number below.

(CSIRO Internal? Just dial 02 6276 2XXX)

[+61262762849@csiro.au](mailto:+61262762849@csiro.au)

#### Phones - AUDIO ONLY

Primary Australia +61 2 6246 4433

Meeting Number/Access Code: 571 237 705

**First time joining a WebEx meeting?** Watch this [60 second video](#) to get started.  
Need further help? Take a look at [conferencing.csiro.au](https://conferencing.csiro.au) for user guides, videos and FAQs.

## Professor Armin Moczek - Indiana University

### Abstract:

Exotic and invasive species represent opportunities to study rapid, short term evolution in action. Our research group uses accidental and deliberate introductions of dung beetle species outside their native ranges to investigate how developmental processes and ecological conditions interact to shape both short term plastic and long term evolved diversification among populations. In this talk I will highlight a subset of studies that illustrate how simple ecological differences such as population densities can drive rapid divergence in suites of morphological, developmental, and physiological traits, and how plastic responses to changing conditions may precede, bias, and facilitate canalized evolved differences in the long term. I discuss these results in the context of the introduction history of dung beetles in Australia, the debated role of genetic accommodation in adaptive evolution, and the extraordinary speciation rate of Onthophagus beetles worldwide.

### Bio:

Armin received his PhD from Duke University, NC, USA, and is currently a Professor of Biology at Indiana University, Bloomington. He is a fellow of the American Association for the Advancement of Science, the Australian-American Fulbright Foundation, and the John Simon Guggenheim Memorial Foundation. His research focuses on the very early stages of innovation in evolution, and the interplay between genetics, development, and ecology in facilitating major innovations and transitions in evolution. He is also a co-leader of an international effort to expand traditional perspectives on what determines speed and direction in evolution to incorporate recent advances in the fields of evolutionary developmental biology, developmental plasticity, non-genetic inheritance, and niche construction. During his time in Australia, Armin will work at the Research School of Biology at the ANU and the Australian National Insect Collection at CSIRO to further advance such a synthesis through both conceptual efforts as well as empirical work on Australian insects.

## [Upcoming seminars](#)

How to get there: [CSIRO Black Mountain site map](#)

[Contact Us](#) | [Privacy Statement](#) | [Legal Notices](#) | [www.csiro.au](http://www.csiro.au)

This email was sent by **CSIRO**

Black Mountain Science and Innovation Park, Clunies Ross Street, Acton, ACT 2601 Australia