

Eawag Seminar Invitation

When the drugs stop working Antimicrobial resistance and what to do about it

Speaker **Prof. Andrew Read**
Pennsylvania State University, USA

When **March 16, 11.00 – 12.00 a.m.**

Where **Forum Chriesbach, room C20, Eawag Dübendorf**

Abstract Antimicrobial resistance is one of the biggest challenges facing 21st Century medicine. Slowing or stopping the evolution of AMR is a problem in applied evolutionary biology: how to contain resistant populations? I will discuss two medical contexts in which AMR is evolving but containment should be possible – a specific patient and a specific hospital – and a third in which we can demonstrate containment (although the patients are mice). In each case, understanding the ecological theater in which the evolution plays out is key. As they (ecologists) say, nothing in evolution makes sense except in light of ecology.