

**Some of the Pp & the Ants Team, 2003:  
Erick Kwan, Maia Schramm, Caitlin Miller,  
Erin Wigge, & Eric Hoyle**





**The first Pp & the Ants Radiotracking Team, 2004:  
Matt Peter, Lindsay Madden, Jessica Hannity, Kelsey Cartwright**





# A flagged *Pogonomyrmex* nest entrance





A harvester ant,  
genus  
*Pogonomyrmex*,  
and probably it is  
*P. salinus*



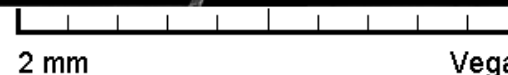


An SEM  
photo of  
the ant  
*Aphenogaster  
megommata*,  
taken by the  
students in  
the 2005 class



SEM MAG: 47 x  
HV: 5.0 kV  
VAC: HiVac

DET: SE Detector  
DATE: 02/28/06  
Device: TS5136MM



Vega ©Tescan  
Western Washington University



An SEM  
photo of the  
ant  
*Camponotus*  
*hyatti*



SEM MAG: 49 x  
HV: 5.0 kV  
VAC: HiVac

DET: SE Detector  
DATE: 02/28/06  
Device: TS5136MM

2 mm

Vega ©Tescan

Western Washington University



**Colin Bean searching for radiotelemetered and powdertracked *Phrynosoma platyrhinos*, 2007**





# Lindsay Madden documenting waypoint with GPS unit & releasing lizards, 2004





**Kelsey Cartwright scribing *Phrynosoma* waypoint  
& Matt Peter flagging the waypoint, 2004**





# GPS waypoint flag for *Phrynosoma* telemetry





**Dr Lance  
McBrayer  
provided  
radiotransmitters  
for the  
Biol 417 class**





# The antenna and receiver



**We tried a beaded harness to hold radiotransmitters, as seen here,  
but we discovered the lizards could entangled in vegetation,  
so we simply began using a spot of superglue instead**





# *Phrynosoma platyrhinos* ready for radiotracking

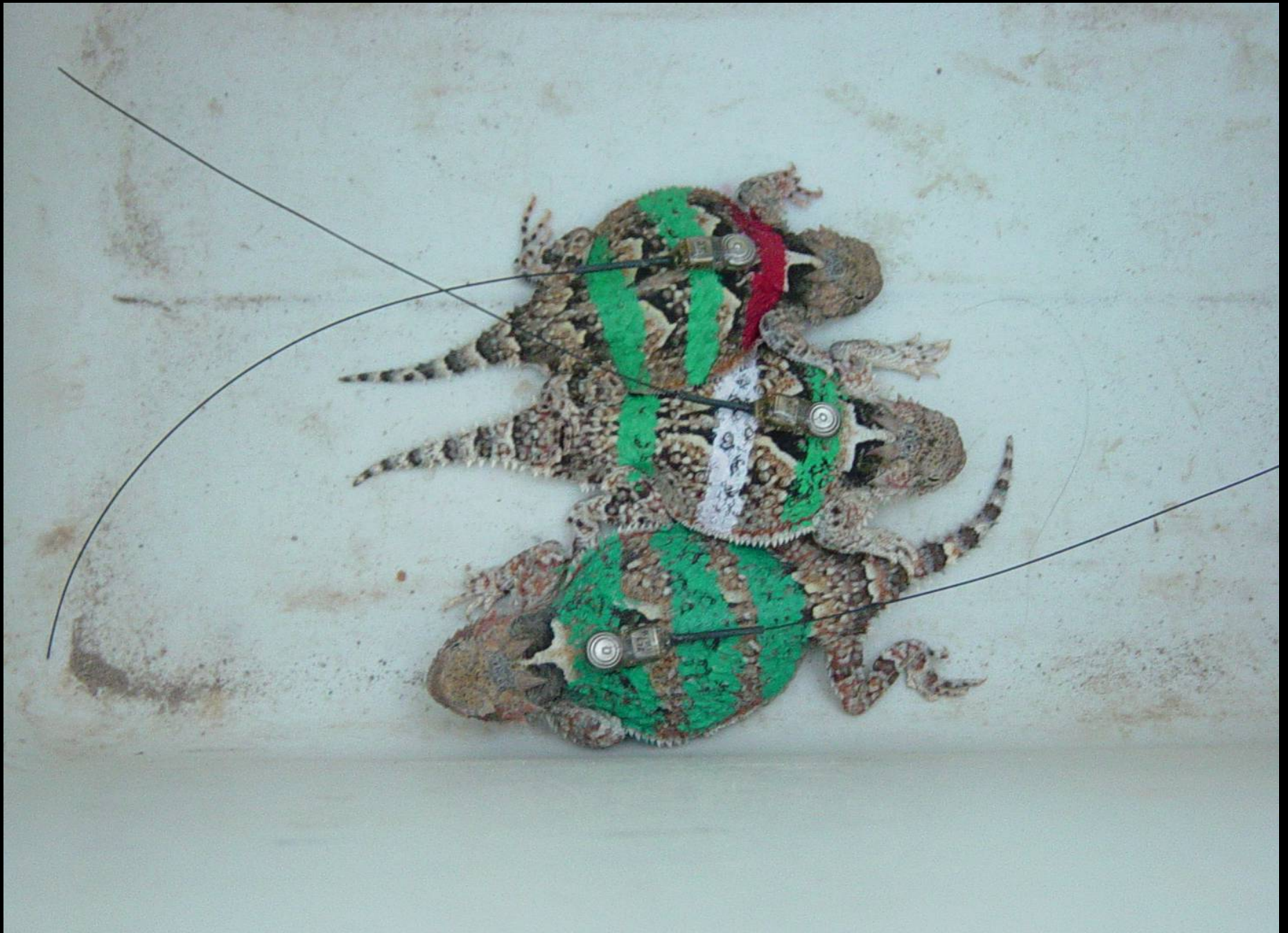


*Phrynosoma  
platyrhinos*  
with radio-  
transmitters





These *Phrynosoma platyrhinos* are ready for release





***Phrynosoma platyrhinos* sleep in the sand**





**At every opportunity, we collected the ant-laden fecal pellets from *Phrynosoma platyrhinos***





# Ant Surveys on Ant Plots

**On eight 5m x 5m plots on ten 10m x 40m grids in 3 sandy flat, 3 hard pan & 3 dune mesohabitats:**

**Visual search for active ants on & under shrubs, and on ground in the open**





*Pogonomyrmex  
salinus*





# A *Pogonomyrmex* colony entrance





*Pogonomyrmex*  
guarding colony  
entrance from  
two  
*Crematogaster*





**Monie Jones & Tera Matson  
compiling list of ant colony locations, 2002**





# Tera Matson labeling flags & Monie Jones working at the picnic table in Fields, 2002





## ***Formica* tending aphids**





***Phrynosoma platyrhinos*, ready for powder tracking**





## Flagged powder track trail of *Phrynosoma platyrhinos*





A powder  
track





The powder  
concentration  
revealed that a  
*P. platyrhinos*  
spent greater time  
or activity in this  
location





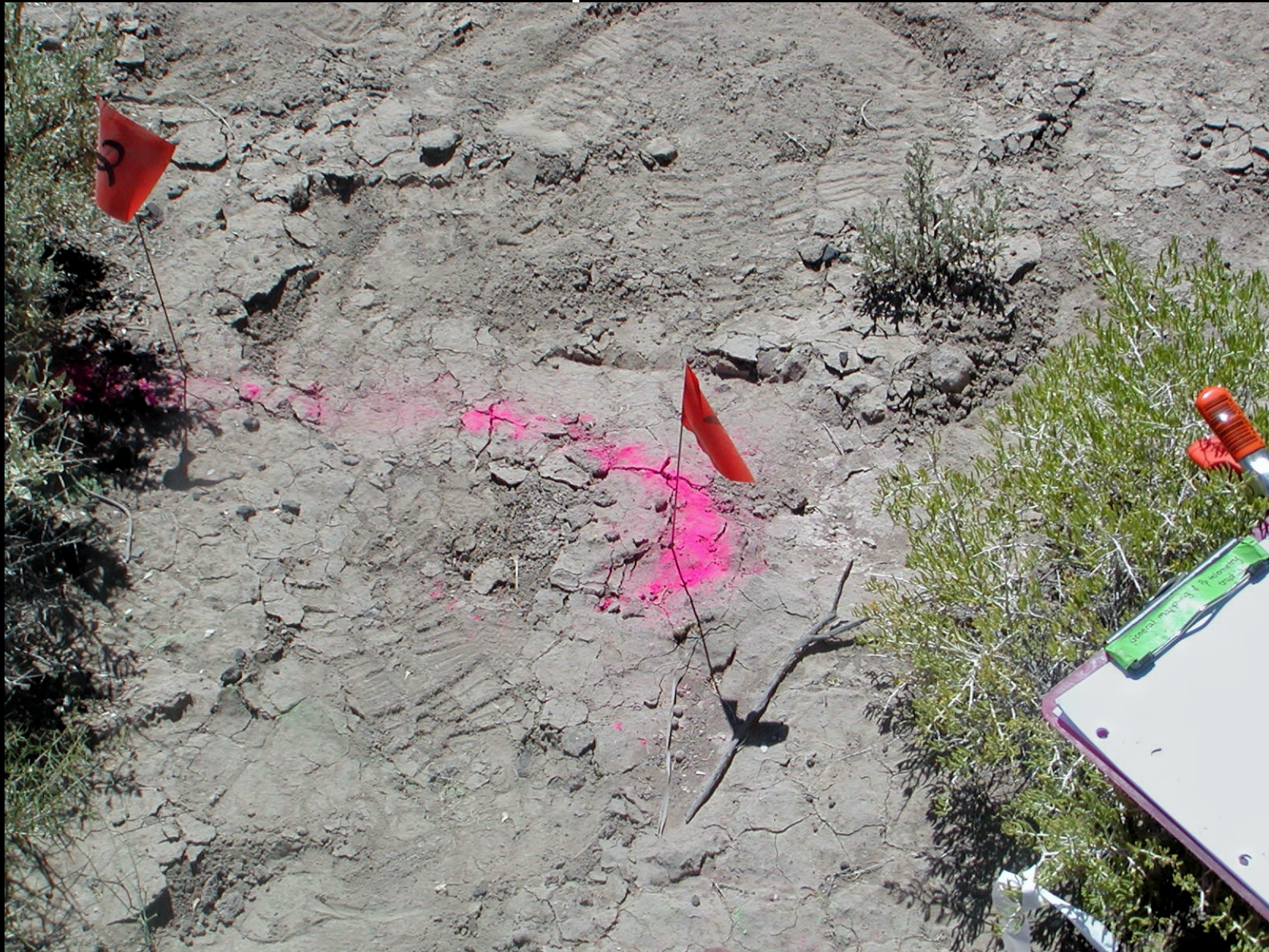
**A telemetered,  
powder-tracked  
*P. platyrhinos*,  
in  
shade of ARTR**

**(it has an excessively  
large fur patch on its  
ventral pectoral region)**





**The release point for a *Phrynosoma platyrhinos*  
that is to be powder-tracked**





## A small segment of a powder-track trail





**Part of a powder track trail in a  
hardpan x sandy flat mix, near a dune, view 1**





**Part of a powder track trail in a  
hardpan x sandy flat mix, near a dune, view 2**





**Part of a powder track trail in a  
hardpan x sandy flat mix, near a dune, view 3**





**A new powder track at a prior-marked GPS position  
of the same *P. platyrhinos***





**Jackie Dexter  
powdertrack  
mapping, 2006**





**Claire Hilsinger  
evaluating her  
field notes, 2006**





**Colin taking a water-and-shade break before heading out to count ants on the ant survey plots**





Colin Bean in  
search of the  
elusive  
*Phrynosoma  
platyrhinos*,  
2007





**Matt Peter performing a  
telemetry search  
for a buried  
*Phrynosoma platyrhinos*  
that had an attached  
radiotransmitter,  
2004.**

