

OHRC Advisory Committee

“Research Report”

19 September 2011

David L. G. Noakes

Professor & Senior Scientist
OSU - OHRC

OSU - IACUC

- Committee (ongoing)
- Site Inspections
- Research reviews
- AALAC accreditation – “ongoing”
- TERM FINISHED – 21 September 2011

Education & Outreach

OCAMP

26 August 2011

30 August 2011

22 September 2011

Education and Outreach

- Ben Clemens – PhD defense
- Christy Meyer - Fisheries Management – MSc Research
- Susan Benda - MSc Thesis Research
- Jeremiah Psiropoulos - Undergraduate Research Projects
- Josh Williams – MSc Thesis Research
- Alsea Watershed Council – 21 July 2011
- Fish Genetics Workshop (26 – 27 July 2011) - OHRC

Research Funding Applications

- Banks et al. – CIMRS - NOAA – 5 year funding – OHRC research (\$33,000,000) (in review)
- Noakes et al. – Oregon Sea Grant – geomagnetic imprinting (2 years - \$200,000) (in review)
- Noakes & Schreck – Chinook surrogate – US ACOE – 2011 - \$75,000 approved

Research Funding Applications

- US Army Corps of Engineers (Chinook)
 - Noakes & Schreck (2 years; \$650,000) in review
- Coos Bay (coho) - ODFW
- Clackamas H:W (ODFW, PGE)
- Steelhead Temperature
 - Noakes (1 year, \$125,000) – Pacific Salmon Commission - in review

Research Discussions

- David Noakes, Michael Blouin, Kathleen Cole – “hatchery: wild genetics”
- Michael Banks, David Noakes, Jennifer Nielsen – “Alsea steelhead genetics”
- John Zauner, Todd AYlsbury, Charlie Corrarino, Ryan Couture, Kevin Goodson, David Noakes – ODFW – “Clackamas & Sandy rivers research”
- Desiree Tullos, David Noakes – “barriers, instream flow and fish distributions”
- David Noakes, Kathleen Cole, Michael Blouin, Carl Schreck – “sex change and gene expression in steelhead”
- Shaun Clements, Ryan Couture, David Noakes – “adult steelhead tracking – Alsea River”

Visitors

- Drs. Jianzhong Shen, Dr. Pinghua He, Wuhan University, China
- Dr. Kathleen Cole, University of Hawaii

Publications

- Noakes, D. L. G. 2011. On our origins. *Environmental Biology of Fishes* 91: 1 – 6.
- Leblanc. 2011. The importance of egg size for early development of salmonids. Ph. D. thesis, OSU.
- Noakes et al. Design of a trap for larval lampreys. (in revision)
- Leblanc et al. VIE tagging small salmonids for studies of growth and behavior (in press)
- Li, Noakes et al. Can humans coexist with fishes? (in press)
- Gao et al. Statistical analysis of otoliths: hatchery and wild discrimination (in revision)

Noakes, D. L. G., P. Rand, B. Berijikian & T. Pearson (co-editors).

Ecological interactions of wild and hatchery salmon. Special Volume, Environmental Biology of Fishes.

OnLine First

<http://springerlink.com/content/102877/>

“Salmon Migration”

D. Noakes & P. Klimley (co-editors)

Special Issue of Environmental
Biology of Fishes

OnLine First

[http://science.calwater.ca.gov/stage/
sci_news_0610_tags.html](http://science.calwater.ca.gov/stage/sci_news_0610_tags.html)

“Threatened Fishes: Fish Conservation”

D. Noakes

Special Issue of Environmental Biology of Fishes

OnLine First

<http://www.springerlink.com/content/102877/?Content+Status=Accepted>

“Hatchery Research: Hatchery Reform”

- Judy Gordon & David Noakes (Co-Editors)
- 3-volume monograph series
- Fish & Fisheries, Springer Academic Publishers

“Otoliths: stable isotopes and microchemistry”

- Yongwen Gao & David Noakes
- Invited Symposium – AFS Annual Meeting, Seattle, Washington – September 2011
- (Power Point presentation)

Research Conferences

Presentations

American Fisheries Society

Annual Meeting

Seattle, Washington

4 – 8 September 2011

- a) Noakes - “Behavioral epigenetics: a mechanism for hatchery: wild differences in salmonids?”
- b) Noakes – “Lessons from a charr fanatic for studies of bull trout: the tragedy of the common name” (invited)
- c) Leblanc et al. “Steelhead smolt migration (poster)”
- d) Noakes, Gao & Banks – “Analysis of hatchery and wild otoliths”
- e) Gao & Noakes – “Chemical and structural analyses of otoliths” (Symposium)

Research Projects and Proposals

Hatch box survival

Operations Research

Samples Collected

- survival (45% gravel, 80% boxes)

Steelhead Temperature

Ambient & Chilled treatments

genetic (Neil Thompson) &
histological (Kathleen Cole) studies;
analyses in progress

Research Project

- Arimune Munataka & Carl Schreck
Power Point presentation

Research Project

- Olfactory Imprinting – incubation
- Andy Dittman, David Noakes, Ryan Couture
- Proposal to Advisory Committee for comments

Research Proposal

- David Noakes & Shaun Clements
- “Behavior of sterile adult steelhead”
- Study NOT to be carried out – low priority for ODFW

Research Proposal

- Shaun Clements, Ryan Couture, David Noakes
“ODFW”
- “Tagging and tracking adult steelhead in coastal rivers”
- To be sent to OHRC Advisory Committee for comments

Research Proposal

- Hatchery: Wild Interactions
- ODFW – Clackamas and Sandy rivers
 - Acclimation sites
 - Juveniles
 - Adults
- Proposal under review by ODFW, PGE

Fish Genetics Workshop OHRC

26 – 27 July 2011

(report by Ryan Couture)

Fish Genetics Workshop

David Noakes, Ryan Couture – Organizers

Marc Johnson - OMNR

Kathleen O'Malley - OSU, HMSC

Renee Bellinger - OSU, HMSC

Neil Thompson - OSU

OHRC Research Proposals

Homing and Straying (researchers)

Oregon Sea Grant Proposal

- a) Embryo movements - Rubens Cube
- b) Adult Chinook salmon testing
- c) Geomagnetic imprinting

Review Manuscript

“Salmon Orientation, Migration, Navigation and Homing”

Quinn, Dittman, Nielsen & Noakes
(in preparation)