

NORTHWEST SCIENCE & TECHNOLOGY

SOUNDINGS

- Friday Harbor Labs Celebrates Centennial 6
- Riding the Nanoscience Wave in Oregon 8
- Clues to Size Decline of Ancient Horses
in Alaska 9

COVER STORY

- Biodefense
America's New Immune System 10
by Ben Raker
*with How do vaccines work? A primer in
the art of customizing the immune system* 14
Sidebar by Stacey Combes

SPACE

- An Interview with
Astronaut Janet Kavandi
*UW alumna and former Boeing engineer
talks about her experience at NASA* 18
by Jeff Wolfe

ENVIRONMENT

- Spreading Like Wildfire
*Northwest researchers develop high-tech
tools to fight and prevent forest fires* 26
- Scientists Solve Mystery of Drastic
Decline in Asian Vulture Populations 31
- The Red Sea Urchin Revealed 33

INNOVATORS

- Corus Pharma's Bruce Montgomery:
*Leading a new approach to
drug development* 35

LIFE SCIENCES

- Systems Biology 36

TECHNOLOGY

- Speech Recognition Research Evolves 40

NORTHWEST EXPLORER

- The Dead Don't Talk, But Plants Might
Rolf Mathewes, Forensic Botanist 42
by Elizabeth Sharpe
- How the "Rough and Ready" West
Shaped Modern Medicine 47

PERSPECTIVES

- Strategies for Technology Transfer and
Commercialization Are Key 50
by Juli Wilkerson
*Director, Washington State Department
of Community, Trade and Economic
Development (CTED)*

DEPARTMENTS

- | | | | |
|--------------|----|-------|----|
| Contributors | 04 | Books | 49 |
| People | 25 | | |