

3*From the Director's Desk***4***Wavelengths***6***Cover Feature:*

MR microscopy of the central nervous system of a mutant SOD model of ALS

9

A novel diffusion method for generating contrast in MRI

11

Science approaching 100 tesla

13

Magnetization measurements at high pressures fine-tuned

15

With equipment move, KBSI researchers and equipment head home

16

Neutrons find missing entropy in a superconductor

18

Resistivity measurements at low temperatures require extreme care

20

New 'Low-E' probes available for biological solid state NMR

23*People***25**

Lab's education efforts enhanced by addition of "Teacher in Residence"

26*Science starts here: Eduard Y. Chekmenev*

Published by:

National High Magnetic Field Laboratory1800 East Paul Dirac Drive
Tallahassee, Florida 32310-3706

Tel: 850 644-0311

Fax: 850 644-8350

www.magnet.fsu.edu

ON THE COVERS:

Mouse brain and spine images like those on the front and back of this issue helped Sam Grant and other researchers to compare models of Lou Gehrig's disease. See page 6 for more.

Director: GREG BOEBINGER

Director, Public Affairs: SUSAN RAY

Editing and Writing: AMY WINTERS, SUSAN RAY

Art Direction and Production: WALTER THORNER

This document is available in alternate formats upon request. Contact Amy Winters for assistance. If you would like to be added to our mailing list, please write us at the address shown at left, call 850 644-1933, or e-mail winters@magnet.fsu.edu.