



2003

NEW MEXICO STATE
UNIVERSITY
RESEARCH AND CREATIVE
ACTIVITIES FAIR

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COUNCIL

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No.: 1

Primary Presenter: Randall Andreasen
e-mail: randaroo@nmsu.edu
College: Agriculture & Home Economics
Department: AXED
Title: ¡Hay, Chihuahua! Taste of Mexico; A
Traveling Workshop: Its Outcomes and
Applications

No.: 2

Primary Presenter: Suman Bagga
e-mail: sbagga@nmsu.edu
College: Agriculture & Home Economics
Department: Agronomy & Horticulture
Title: Co-expression of Methionine Rich Zein
Genes and the Genes for Cystathionine Gamma
Synthase, a Key Enzyme in the Methionine
Synthesis for Increasing Methionine Levels in
Alfalfa

No.: 3

Primary Presenter: Joe Becker
e-mail: joebecke@nmsu.edu
College: Library
Department: Technical Services
Title: Research Overhead Funds to Support the
Library's Materials Budget

No.: 4

Primary Presenter: Joseph M. Berning
College: Education
Department: Physical Education Recreation Dance
Title: Physiological Assessment of Pushing vs.
Pulling a Vehicle for 400 Meters

No.: 5

Primary Presenter: Carolyn Bizzell
e-mail: cbizzell@nmsu.edu
College: Arts & Sciences
Department: Chemistry & Biochemistry
Title: New Mexico Biomedical Research
Infrastructure Network

No.: 7

Primary Presenter: Priscilla Bloomquist
e-mail: pbloomqu@nmsu.edu
College: Agriculture & Home Economics
Department: Hotel, Restaurant & Tourism
Management
Title: Working Vacation Ranches in New Mexico

No.: 6

Primary Presenter: Wanda Borges
e-mail: wjborges@nmsu.edu
College: Health & Social Services
Department: Nursing
Title: Effectiveness of a Brief Foot Intervention in
Type II Diabetics in the Emergency Department

No.: 8

Primary Presenter: James Botsford

e-mail: jbotsfor@nmsu.edu

College: Arts & Sciences

Department: Biology

Title: A Method to Determine Toxicity

No.: 9

Primary Presenter: Terry Canup

Other Presenters: Barbara Chamberlin, Jeanne

Gleason, Pamela Martinez

e-mail: tcanup@nmsu.edu

College: Agriculture & Home Economics

Department: Agricultural Communications

Title: Leading Object Media -- Project Partner

No.: 10

Primary Presenter: Nancy Cordero

Other Presenters: Keith Mandabach, Gregory

Blanch, Dawn VanLeeuwen, and David Boje

e-mail: ncordero@nmsu.edu

College: Agriculture & Home Economics

Department: Hotel, Restaurant & Tourism

Management

Title: Retail Merchandising in the Food and Beverage Industry

No.: 11

Primary Presenter: Jim Cowie

e-mail: jcowie@nmsu.edu

College: Arts & Sciences

Department: Computing Research Laboratory

Title: Gene Literature Exploration Environment --
From Gene Lists to Pathways for Cancer Cure

No.: 12

Primary Presenter: Rebecca Creamer

e-mail: creamer@taipan.nmsu.edu

College: Agriculture & Home Economics

Department: EPPWS

Title: Incidence of Beef Curly Top Virus in Chile
Pepper and Weeds in New Mexico

No.: 13

Primary Presenter: Phillip DeLeon

Other Presenters: Stephen Horan

e-mail: pdeleon@nmsu.edu

College: Engineering

Department: Electrical & Computer Engineering

Title: Effective Utilization of Commercial Wireless
Networking Technology in Planetary Environments

No.: 14

Primary Presenter: Shuguang Deng

e-mail: sdeng@nmsu.edu

College: Engineering

Department: Chemical Engineering

Title: Radium Removal for Groundwater

No.: 15

Primary Presenter: Connie Falk

e-mail: cfalk@nmsu.edu

College: Agriculture & Home Economics

Department: Agricultural Economics &
Agricultural Business

Title: OASIS: Organic Agriculture Students
Inspiring Sustainability

No.: 16

Primary Presenter: Lisa Frehill

e-mail: lfrehill@nmsu.edu

College: Arts & Sciences

Department: Sociology/Anthropology

Title: NSF-ADVANCE Institutional
Transformation Program at NMSU

No.: 17

Primary Presenter: Bill Gould

e-mail: wgould@nmsu.edu

College: Business

Department: University Statistics Center

Title: Habitat Suitability of Aplomado Falcons in
the Northern Chihuahuan Desert

No.: 18

Primary Presenter: Neil Harvey

e-mail: nharvey@nmsu.edu

College: Arts & Sciences

Department: Government

Title: Biodiversity Conflicts and Indigenous Rights
in Chiapas, Mexico

No.: 19

Primary Presenter: Dean Hawkins

e-mail: dhawkins@nmsu.edu

College: Agriculture & Home Economics

Department: Animal and Range Science

Title: Effects of Short-term Fasting on
Reproductive Function in Beef Cows

No.: 20

Primary Presenter: Dean Hawkins

e-mail: dhawkins@nmsu.edu

College: Agriculture & Home Economics

Department: Animal and Range Science

Title: Relative Amounts of mRNA Encoding

Endothelial and Inducible Nitric Oxide Synthase in
the Bovine Corpus Luteum

No.: 21

Primary Presenter: Stephen Horan

e-mail: shoran@nmsu.edu

College: Engineering

Department: Electrical & Computer Engineering

Title: The NMSUSat Mission

No.: 22

Primary Presenter: Pat Hynes

e-mail: phynes@pathfinder.nmsu.edu

College: Engineering

Department: NM Space Grant

Title: Gaining Retention and Achievement for
Students Program (GRASP)

No.: 23

Primary Presenter: Becky Keele

Other Presenters: Teresa Leon

e-mail: bkeele@nmsu.edu

College: Health & Social Services

Department: Nursing

Title: Development of an Individually Tailored
Exercise Prescription

No.: 24

Primary Presenter: Lené Löest

e-mail: hloest@nmsu.edu

College: Agriculture & Home Economics

Department: Agronomy & Horticulture

Title: Minority Institution/Cancer Center

Partnership Program: New Mexico State University
& Fred Hutchinson Cancer Research Center

No.: 25

Primary Presenter: Keith Mandabach

Other Presenters: Robert J. Harrington, Wallace
Rande, and Dawn VanLeeuwen

e-mail: kmandaba@nmsu.edu

College: Agriculture & Home Economics

Department: Hotel, Restaurant & Tourism
Management

Title: When the Inmates Are in Charge of the
Asylum: Managing Student Restaurants and
Dinners

No.: 26

Primary Presenter: Keith Mandabach
Other Presenters: Gregory Blanch and Dawn VanLeeuwen
e-mail: kmandaba@nmsu.edu
College: Agriculture & Home Economics
Department: Hotel, Restaurant & Tourism Management
Title: Restaurant Managers Perceptions of Point of Sale Systems

No.: 27

Primary Presenter: Shakir Manshad
Other Presenters: Rene Sierra
e-mail: smanshad@nmsu.edu
College: DABCC
Department: General Studies/Math
Title: Mathematical Software for Blind and Visually Impaired College and High School Student

No.: 28

Primary Presenter: Allyssa Martinez
Other Presenters:
e-mail: allmarti@nmsu.edu
College: Arts & Sciences
Department: Biology
Title: Distribution of Selected Enteric Pathogens in Sewage and Treated Waste Water at Three Waste Water Treatment Plants in the Paso del Norte Area

No.: 29

Primary Presenter: Lisa McKee

e-mail: lmckee@nmsu.edu
College: Agriculture & Home Economics
Department: Family and Consumer Sciences
Title: Consumable Household Products for Decontaminating Retail Pork Loin Chops

No.: 30

Primary Presenter: Lisa McKee
e-mail: lmckee@nmsu.edu
College: Agriculture & Home Economics
Department: Family and Consumer Sciences
Title: Consumable Household Products for Decontaminating Retail Beef Steaks

No.: 31

Primary Presenter: Lisa McKee
e-mail: lmckee@nmsu.edu
College: Agriculture & Home Economics
Department: Family and Consumer Sciences
Title: Consumable Household Products for Decontaminating Retail Skinless, Boneless Chicken Breasts

No.: 32

Primary Presenter: Laura McManus

e-mail: lmcmamus@nmsu.edu

College: Agriculture & Home Economics

Department: Agronomy & Horticulture

Title: Some like it Hot

No.: 33

Primary Presenter: Beverly Georgianne Merrick

e-mail: bmerrick@nmsu.edu

College: Arts & Sciences

Department: Journalism & Mass Communications

Title: The Creative Eye: Candid Poems, Stories and

Photographs of Rural America -- On Sabbatical in

Nebraska

No.: 34

Primary Presenter: Larry K. Olsen

e-mail: lolson@nmsu.edu

College: Health & Social Services

Department: Health & Social Services

Title: HOT Projects

No.: 35

Primary Presenter: Jose Ortega

e-mail: jortegac@nmsu.edu

College: Agriculture & Home Economics

Department: Agronomy & Horticulture

Title: the 3' Untranslated Region of the Glutamine

Synthetase mRNA Controls Transcript Stability and

Translation Efficiency in Alfalfa

No.: 36

Primary Presenter: Catherine Ortega Klett

e-mail: coklett@nmsu.edu

Department: Water Resources Research Institute

Title: Overview of the New Mexico Water

Resources Research Institute

No.: 37

Primary Presenter: Marilyn Pase

e-mail: mpase@nmsu.edu

College: Health & Social Services

Department: Nursing

Title: Coping with Stress: Reported Strategies by

NMSU Faculty and Staff

No.: 38

Primary Presenter: Geno Picchioni

e-mail: gpicchio@nmsu.edu

College: Agriculture & Home Economics

Department: Agronomy & Horticulture

Title: Water Quality Issues for Tree, Turfgrass, and Flower Cultivation in New Mexico

No.: 39

Primary Presenter: Jane Breen Pierce

Other Presenters: P. Yates Monk, A.L. Richardson, C. Sutherland, J.J. Ellington, and C.S. Bundy

e-mail: japierce@nmsu.edu

College: Agriculture & Home Economics

Department: Agricultural Science Center/Artesia

Title: Biological Control of Alfalfa Weevil in New Mexico

No.: 40

Primary Presenter: Carol Potenza

e-mail: cpotenza@nmsu.edu

College: Agriculture & Home Economics

Department: Agronomy & Horticulture

Title: Microarrays as a Tool for Monitoring Changes in Gene Expression in Root-knot Nematode Infected Chile Root

No.: 41

Primary Presenter: Richard Richins

e-mail: ririchin@nmsu.edu

College: Agriculture & Home Economics

Department: Agronomy & Horticulture

Title: Molecular Determinants of Phytophthora Resistance

No.: 42

Primary Presenter: Jaime E. Rodriguez

e-mail: jarodrig@nmsu.edu

College: Agriculture & Home Economics

Department: Agronomy & Horticulture

Title: Medicinal Plants of the Southwest: a Student Development in the Biomedical Science

No.: 43

Primary Presenter: Elisa Sanchez

e-mail: sanelisa@nmsu.edu

Department: Office of the Provost

Title: Southern New Mexico Collaborative

No.: 44

Primary Presenter: Pamela Schultz

e-mail: pschultz@nmsu.edu

College: Health & Social Services

Department: Nursing

Title: Relationship Between Menopausal Symptoms, Quality of Life, and Physiologic Health Effects of Cancer in Long-term Breast Cancer Survivors

No.: 45

Primary Presenter: Pamela Schultz

e-mail: pschultz@nmsu.edu

College: Health & Social Services

Department: Nursing

Title: Psychosocial Profile of 5209 Long-term Cancer Survivors

No.: 46

Primary Presenter: Pamela Schultz

e-mail: pschultz@nmsu.edu

College: Health & Social Services

Department: Nursing

Title: Cancer Support Groups: One Size Does Not Fit All

No.: 47

Primary Presenter: Rhonda Skaggs

e-mail: rskaggs@nmsu.edu

College: Agriculture & Home Economics

Department: Agricultural Economics & Agricultural Business

Title: New Mexican's Attitudes Toward the Environment, Agriculture, and Government

No.: 48

Primary Presenter: Tracy Sterling

Other Presenters: Laurie Abbott

e-mail: tsterlin@nmsu.edu

College: Agriculture & Home Economics

Department: EPPWS

Title: Physiological Responses of African Progressive Drought

No.: 49

Primary Presenter: Laura Thompson

e-mail: thompson@nmsu.edu

College: Arts & Sciences

Department: Psychology

Title: Mother-infant Synchrony in Cortisol and Behavior: Relations with Learning in 6-month-old Infants

No.: 50

Primary Presenter: Jackie Williams

e-mail: jacwilli@nmsu.edu

College: Health & Social Services

Department: Nursing

Title: Family Stress, Family Coping, Family Communication, and Family Adaptation and Unintended Adolescent Pregnancy

The following faculty members are recipients of the 2003 University Research Council Awards for Exceptional Achievement in Creative Scholarly Activity:

Jeanne Gleason is a professor in agricultural communications. Gleason is a producer of computer and video technologies and an extensive producer of more than 700 educational videos and 100 multimedia projects. Some of her documentaries have been featured at the Smithsonian Institution.

James Herndon is a professor in chemistry and biochemistry. Herndon's research focuses, in part, on the impact that the field of synthetic organic chemistry has on human health. His goal is to figure out new, more efficient and effective ways to produce key ingredients for drugs that might be used to treat cancers of various kinds, or that might be effective anti-viral agents.

David Jáuregui is an assistant professor in civil and geological engineering. Jáuregui teaches structural engineering specializing in bridge construction. In 2001, he collaborated with two NMSU colleagues to design a virtual reality bridge inspection system.

Heinz Nakotte is an associate professor in physics. Nakotte's research, in the field of condensed-matter physics with an emphasis on magnetic materials, aims to increase understanding of the basic mechanisms responsible for many magnetic and related phenomena.