

# FRIENDS OF BANDELIER

## ANNUAL REPORT for 2010

**BANDELIER HIGHLIGHTS of 2010:** Remodeling of the Visitor Center dominated 2010 at Bandelier. The project was a total immersion experience for newly-appointed Chief of Interpretation Rod Torrez. Rod persevered, all went well, and the new center gets excellent reviews. The Juniper Campground much-needed upgrades are also completed. Bandelier staff can settle down now to the business of running the park. Despite all the construction hubbub, the rangers were able to make effective use of our 2010 grants on worthwhile projects.

**RESOURCE MANAGEMENT:** Chief of Resource Management, Barbara Judy, has been reviewing Bandelier's infrastructure to develop plans for improvements and maintenance. In 2010, the Friends funded an assessment of 18 elk enclosure structures in the park (\$2,000). The enclosures are designed to exclude large animals so the rangers can measure differences in vegetation survival inside and outside the enclosures. These structures are scattered throughout the park. The assessment found all but one of the enclosures in good or easily repairable condition. Barbara plans to have the enclosures repaired in the near future to provide data on browse regeneration. See her report on page 5.

Since 1987, Bandelier has been conducting a surface survey of archaeological sites throughout the park, most of which is wilderness. In 2010, Archaeologist Rory Gauthier declared he would finish in three years. Superintendent Jason Lott requested that we fund a student who could assist Rory's crew (\$4,200). We received a nice thank you letter from Rory and an essay from the assistant, David Shiffler. David is now a freshman at the University of New Mexico studying anthropology and archaeology. See David's report on page 6.

**PRINTING (\$3,626.34):** As we have for many years, the Friends funded printing and distribution of two Bandelier newspaper inserts in 2010. The spring Fire Management Plan explained why the park needs to conduct managed fires to reduce excessive fuel loads in the forests. The plan listed the fire projects for the season, weather permitting. The weather permitted some of the burns to be carried out, but not all. One successful burn was of an experiment plot of the Pinyon-Juniper Restoration study initiated in 1994. The study involved cutting most of the juniper trees and spreading the fresh branches as mulch. The hope is to restore a semblance of the grasslands that existed before the arrival of Spanish livestock in 1598. We shall see if this final step in the process brings any success.

In autumn, we funded the only 2010 edition of the Tuff Times. You should all have received the paper one way or another. I'm informed that the rangers will produce only one issue per year in the future. It will be a spring edition and list activities that the rangers hope to accomplish in that year.

**PHYTOLITHS (\$4,000):** Robert Powers was the principal investigator for the 1987-1992 archaeological surface survey of Bandelier. He produced several technical reports on the survey and was editor of the definitive book on the park's prehistory, *The Peopling of Bandelier*. Bob maintained a special interest in the park and has an acute curiosity about agricultural strategies of the ancestral pueblo farmers. After he retired from the park service, Bob went back to school for a PhD. For his thesis, he is studying the distribution of suitable farming areas in Bandelier.

As part of his studies, Bob collects soil samples for analyses of various indicators of farming activity. Plants collect silica-laden water in their cells and intercellular spaces which deposits solid little silica grains called phytoliths. Many grasses form phytoliths that are characteristic for each species. These sand-like particles can be identified in soil hundreds of years after the plants died. Cultivated maize is one such grass that produces identifiable phytoliths. Superintendent Lott asked the Friends to grant \$4,000 for soil analyses of Bob's samples. I put a little resume of the results on page 4.

### VALLES CALDERA NATIONAL PRESERVE:

Some of you may be interested in the Valles Preserve adjacent to Bandelier. In 2000, Congress established the VCNP as a government-owned park governed by an independent Board of Trustees, who were charged with rendering the park financially self-sustaining within 20 years. After 10 years, it has become obvious that the board governance system has intractable problems. In 2010, Senator Jeff Bingaman introduced a bill to transfer the VCNP to the National Park Service. His bill was included in a Public Lands and Utilities Omnibus Bill that came before Congress in the lame duck session. The bill never came to a vote because several senators objected to other provisions in the bill. The tax bill and START Treaty debates left no time to reconcile these issues; the bill died at the end of the session.

Senator Bingaman worked very hard on this issue; it is unlikely he will start the process over again and he has announced that he will not seek reelection in 2012. If nothing happens before 2020, the VCNP will be absorbed into the National Forest Service. In the past, the forest service did not show much interest in the VCNP. Now I'm told that as a result of the senator's efforts, the forest service is paying more attention to the preserve and providing real assistance.

We've said it so many times: it will be an interesting budget year. This year Congress may actually address the spiraling national debt. No one can predict what will happen to our national parks, but the public has always shown passionate support for our Crown Jewels.

We wish all you Friends a good New Year.  
Dorothy Hoard, President, Board of Trustees.



# FRIENDS of BANDELIER

# Financial 2010

## FRIENDS OF BANDELIER ANNUAL FINANCIAL REPORT

January 1, 2010 to December 31, 2010

Current Assets - Balance Forward as of January 1, 2009:	
Cash in General Fund	\$18,053.38
Cash in Major Purchase Fund	<u>6,515.81</u>
NET ASSETS TOTAL BALANCE FORWARD	\$24,569.19

Revenue and Other Support:	
Contributions	\$12,498.59
Honoraria Contributions	500.00
Memorial Contributions	1,375.00
NPS Grant Reimbursement for School Transportation*	1,518.70
Royalties: <i>The Peopling of Bandelier</i>	268.94
Velarde Print Proceeds	312.50
Interest - General Fund	170.09
Interest - Major Purchase Fund	<u>75.24</u>
TOTAL REVENUE AND OTHER SUPPORT	\$16,719.06

Disbursements:	
Elk Enclosure Assessment	\$2,000.00
Phytolith Analysis	4,000.00
Printing: Fire Edition in the Los Alamos Monitor	2,008.08
Printing: Monument's Newspaper, The Tuff Times	1,618.26
Student Archaeologist	4,200.00
Transportation: Holy Ghost Catholic School Children*	<u>425.00</u>
TOTAL DISBURSEMENTS	\$14,251.34

Expenses - Friends of Bandelier:	
Advertising	\$95.00
Bulk Mailing Permit	185.00
Corporate Report Filing Fee	10.00
Copying	174.10
Liability Insurance	640.00
Postage	150.00
Post Office Box Renewal	44.00
Website and Domain Hosting	<u>125.53</u>
TOTAL EXPENSES	\$1,423.63

Net Assets, End of Period:	
General Fund	\$18,022.23
Major Purchase Fund	<u>7,591.05</u>
TOTAL NET ASSETS (Balance: December 31, 2010)	\$25,613.28

**Note to Financial Report:**

The End of Period funds reflect a \$1,000 transfer made annually from the General Fund to the Major Purchase Fund with Board of Trustees approval.

\*The disbursement for transportation for school children facilitated the NPS grant to Bandelier National Monument and was reimbursed within the fiscal year. Included in the reimbursement was school transportation funded in 2006, 2008, and 2009..

## GRANTS to BANDELIER

1988-2010

### Archaeological

Surveys, excavations, equipment	\$56,497.09
Studies, publications, documentation	31,720.52

### Interpretation

Capital items	\$16,976.00
Peopling of Bandelier book	5,000.00
Printing newspapers, etc	29,045.95
supplies	3,021.65
training & awards	2,942.63
services	10,644.68
90th anniversary items	4,152.03
Centennial Matching Grants	51,116.00

### Resource Management

GPS units and supplies	\$18,157.00
Maintenance & supplies	10,100.00
Video & Microscope	2,750.00

### Ecological

Greenhouse facility supplies	\$5,000.00
Pinyon-juniper Restoration Study	4,800.00
Ecological studies assistants	6,800.00
Butterflies, arthropods	5,500.00
Fire Management SCA	3,215.00

### Cultural Awareness - Pueblo Crafts

Pueblo Cultural Demonstrations	\$17,521.60
Crafts purchases	7,755.00
Archive/Museum purchases	6,291.20

### Handicapped

Campsite Upgrades	\$3,600.08
Handicapped Ramp	1,625.74
Wheelchair	640.00
Drinking fountains	3,500.00
Telephone Device for the Deaf	443.30
Braille Labels for Touch Table	106.50

### Social Events

Coffee-with-a-Ranger	\$2,052.65
VIP Parties, receptions	1,564.16
90th Anniversary Celebration	1,667.70

### Protection

EMS Trauma Kit	\$414.95
SCA Backcountry Patrol	2,500.00

<b>GRAND TOTAL</b>	<b>\$317,121.43</b>
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**STATE OF THE PARK 2011****Jason Lott, Superintendent**

It has been another busy year of change at Bandelier, with a lot to be proud about. During 2010 the refurbished and expanded Visitor Center was completed, with the new film, theater and exhibits receiving high praise from visitors. There were also improvements to our infrastructure with replacing the gas line, paving all the roads on the mesa, and re-roofing two buildings in the CCC National Landmark District. Accomplishments for the year also included completing the landscaping for the Eco-Restoration Project, initiating year 1 of 3 for the completion of the Bandelier Archaeological Survey, completing Year 10 for Park Flight, and the Division of Historic Preservation completed the design and development of a new Viga End Replacement Tool.

It was during the past year that the Bandelier Conservation Corps (BCC) was established. The crew was managed by Kevin Stillman, and consisted of Lucas Swina from Cochiti Pueblo; Meghan Montoya, Justin Micha Ben-Niem, and Drew Betts of Los Alamos; Justin Garcia of Espanola; and Athena Lopez and Mike Pecusa from Pojoaque Pueblo. They spent the summer working on our trails, assisting with preservation projects, learning about our wilderness, and even spent a few days working on trails at Rocky Mountain National Park. This has proven to be a great program, one we intend to keep!

The Monument also did well on a series of reviews of our programs, including the Fee Program, Law Enforcement Program, Historic Preservation Program, and our annual Safety Audit. We made great progress with our Transportation Planning by testing the Atomic City Transit, utilizing an employee shuttle system, and establishing an employee parking area. Interpretation launched into the world of Social Media and established sites on FaceBook (over 1,600 "Friends"), Twitter, YouTube (created four Monument films), Flickr (over 240 pictures added), established a webcam, and added a series of new web pages for resources projects. Last year was also a great year for safety.

Along the way, Bandelier was also recognized. The Monument received the Western National Park's Association (WNPA) *Park of the Year Award*, the Fire Program received the NPS Intermountain Region's *Ken Castro Award for Excellence in Fire Management*, and the Division of Historic Preservation received the *John Wesley Powell Prize for Excellence in Historic Preservation in Federal Government*. The Fire Module was also recognized for their quick response to a visitor incident at Great Sand Dunes, and our Law Enforcement Rangers were credited with a successful ARPA case involving stolen artifacts from Bandelier and other national parks. Additionally, Bandelier staff provided support on a national level by sending seven individuals to support the Gulf BP Oil Spill. Other notable events include the Cerro Grande 10-Year Remembrance and the Visitor Center Grand Re-opening. As for our visitors, we saw a 10.47% increase in visitation (only three parks in New Mexico saw an increase), which is outstanding considering that our Visitor Center and Juniper Campground was closed for the majority of the year!

As for the Friends, Bandelier can claim another outstanding year for support. Friends provided funding to conduct an elk enclosure survey and evaluation, hire a student archaeological assistant, complete the Powers/Bozarth phytolith soil sample analysis, and print the annual *Tuff Times* and Fire Inserts in the Los Alamos Monitor. It is these types of projects that the Monument struggles to fund, and we very much appreciate the support and help of Friends to get these projects completed.

On February 25, the Monument will mark the beginning of the new season with the re-opening of Juniper Campground. The loops have been redesigned, and now will have some walk-in campsites in addition to the drive-in spaces. New campfire rings and picnic tables have been put in the sites, and visitors can expect a much more pleasant camping experience.

Everyone can continue to expect additional programming from our Interpretive Division. Please remember to come and participate in one of our campfire programs this year. Recently, Bandelier started offering ranger-guided Moonlight Snowshoe Hikes. Other upcoming events include the Tucson Festival of Books (March 12-13), New Mexico Heritage Preservation Month (May), NPS Week (April 16-24), Fall Fiesta (still scheduling), and the Bandelier Reunion (not quite sure when yet). Projects that we have planned this year include a Transportation Workshop, a test pilot for eradication of exotics from Frijoles Canyon, trails and trail head planning, the second year of the Bandelier Conservation Corps, the second year of the Bandelier Archaeological Survey, Park Flight, and many others. Monument staff are also working on a Park Presence Program, which should define the "look and feel" for the Monument. Part of this effort will be monument signage, which we are strongly considering going back to the Art Deco and CCC "look and feel".

This is going to be another exciting year for the Monument, and we look forward to the Friends participation in our planning and project efforts. There's a lot going on, and if you're interested, we have plenty of volunteer opportunities. Also, please plan on attending our Reunion later this year; it promises to be a good time! See ya there! And on the web....

Jason

For more volunteer information and an application, call the park volunteer coordinator, Cathie Scheel, at 505-672-3861 x517 or e-mail her through the website [www.nps.gov/band/supportyourpark/volunteer.htm](http://www.nps.gov/band/supportyourpark/volunteer.htm).

Bandelier is now thoroughly modern, courtesy of Colin MacArthur, "our" web guru from a 2007 Friends grant. Colin was affectionately known as the Bill Gates of Los Alamos. He has set up the latest web interactive communication sites for Bandelier and the rangers enjoy interacting with webfriends. Colin is now a sophomore in college but still spends summers at Bandelier and even went to Acadia National Park in Maine to consult with Lynne Dominy in her new job there.

Here are Bandelier's web addresses:

[www.nps.gov/band](http://www.nps.gov/band)  
[www.facebook.com/BandelierNPS](https://www.facebook.com/BandelierNPS)  
[www.twitter.com/BandelierNPS](https://twitter.com/BandelierNPS)  
[www.flickr.com/photos/BandelierNPS](https://www.flickr.com/photos/BandelierNPS)  
[www.youtube.com/BandelierNPS](https://www.youtube.com/BandelierNPS)



#### **BIOSILICATE ANALYSIS OF PREHISTORIC FIELDS AT BANDELIER NATIONAL MONUMENT**

Steven Bozarth, Ph.D., University of Kansas Palynology Laboratory, Department of Geography, Lawrence, Kansas

We received a lengthy report on the phytolith analyses that we would be happy to share with anyone on request. It is quite technical, but contains an excellent explanation of the value of phytolith studies for soils research.

Bob Powers submitted 22 samples from seven boreholes from three different sites, plus three background samples. Dr. Bozarth, who performed the analyses, found maize root phytoliths, but no phytoliths from the upper parts of the plant, in soil samples from two of the three sites. This led him to speculate that Pueblo farmers cut the plants at the base and carried the stalks away for other uses, as farmers do even today. The third site gave no indication that it had ever been farmed, and background samples that Bob chose from locations that showed no signs of farming were also negative for corn phytoliths. As almost always happens, a bit of data always leads to more questions; Bob plans to find funding for more of these studies.

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**Report to Friends of Bandelier: Survey of Elk Enclosures 2010**  
**Barbara A. Judy, Chief of Resources, Bandelier National Monument**

During the summer and fall of 2010, NPS staff Collin Haffey worked with a volunteer, Jamie Donovan, to survey the condition of the elk enclosures in Bandelier National Monument. The project is now complete, as summarized in the following report:

The elk enclosures were set up to study the effects of elk browsing on vegetation, and more specifically, on new aspen shoots. The enclosures are square structures, 200x200ft, made of woven wire fence about ten feet tall. Smooth security wire is hung above the fencing that angles out away from the enclosure to prevent animals from jumping the fence. These enclosures are set up along an elevational gradient in three different ecosystem zones: piñon-juniper, ponderosa-grassland, and mixed conifer. The aspen are most commonly found in the mixed conifer zones within Bandelier.

The condition assessment was carried out by walking to the enclosures, aided by GPS loaded with the enclosure locations and topographic maps which also displayed the locations. Once we arrived at an enclosure, we documented the damage to the structure, as well as the amount and type of work necessary to repair the enclosure. A common repair required to some structures is re-hanging the fence. Due to the style of fence used for the project, it tends to fold under a fallen tree like the folds on an accordion and can be easily stretched back up the standing poles. The number of poles that need to be straightened and the number beyond repair that need to be replaced was also noted. Along with the repairs to the structure, the number and size of the trees needing to be removed was also recorded. The most damage to the enclosures occurred in the mixed conifer zones, reflecting the density of trees in those areas. Photographs were taken of enclosures when we felt they would be helpful in illustrating the damage, or where the effect on the enclosure was strikingly obvious. In many cases the shadows produced by the forest canopy or the trees themselves prevented photo opportunities.

All of the enclosures were visited and their conditions were recorded in a report that was delivered to Barbara Judy (Chief of Resources) and Stephen Fettig (Wildlife Biologist) in November 2010. The report includes a summary as well as detailed information about the extent of damage to the enclosures and the necessary repairs. The photos are included in the report with captions explaining which enclosure is in the photo and why it is of interest.

Overall, most of the enclosures could be repaired and made to function with a crew of two or three people working a week to ten days. Most of the work involves removing trees, straightening poles and re-hanging fences. Only one of the enclosures in the ponderosa grass zone (PG3) may be beyond practical repair.

The enclosures in the mixed conifer zones appear to be preventing the aspen shoots from being browsed by elk; therefore aspen stands are able to develop inside the enclosures, in contrast to directly outside the fenced area where elk browsing prevents aspen growth. These enclosures provide data that will help managers understand how to preserve the aspen stands within Bandelier, as well as help game managers in the Jemez Mountains establish a sustainable elk population size. With current research showing that aspen do not reproduce from seed in the Intermountain West, continued long term research on how to effectively protect new aspen shoot growth is very important.

## My Experience at Bandelier

David Shiffler

During the summer of 2010, from May 24 to August 12, I worked as a field archeologist for Bandelier National Monument. We surveyed 182 acres and we also found and recorded 18 new archeological sites. These sites included eagle traps, field houses, rock shelters, and religious shrines. I learned many new skills and methods of surveying, site recording, and basic navigation. These skills will be useful as I pursue my studies in anthropology and hopefully return to work again next summer.

During the summer, our crew of four archeologists did a lot of surveying; in fact we surveyed 182 acres. I learned basic survey methods which consisted of walking transects across the area that needed to be surveyed. When someone in the crew would come across an artifact or possible structure we would all stop and search the area and look for other archeological evidence such as more artifacts or house mounds. If we did find a site, we would GPS the site features and site boundaries and start filling out forms to document site features and artifact types.

To do the recording, we would need to fill out the LA (Laboratory of Anthropology) site form; the ASMIS form (Archeological Site Management Information System), complete a site map and site sketch and also complete the lithic analysis and ceramic analysis and record those results on another form. During the course of this summer I partook in all of these activities at one time or another, however more than any activity I did was lithic analysis (study of stone artifacts). This consisted of selecting a 10 meter by 10 meter plot from which to sample the lithic artifacts and analyze each artifact by determining whether it was a flake, a piece of shatter or something more interesting such as a biface tool or projectile point. This data was all documented on the lithic form. Altogether, on each site we recorded, we would generate about 10 pages of forms, notes, artifact drawings and maps.

During our stay in the field, we used maps and GPS units to navigate to and from our survey units, and by the end of the summer I became very familiar with the Garmin GPS units and my compass. I learned not only basic orienteering skills but also how to draw detailed maps using my compass. Using the Garmin GPS units I learned how to plug-in points and run routes which ensure that we would completely survey an area and not miss anything. It would also help us navigate back to our campsite. Using the Trimble GPS unit, I learned the basic of ARC pad and was able to record the boundaries of the archeological sites. I also, unfortunately, learned quite a bit about trouble shooting the Trimble unit and getting it to pick up satellites. In the office, I learned the basics of ARC Map, which is part of the ArcGis software package.

All of the GIS information is used to make accurate maps of site locations and for accurately plotting site boundaries.

During my summer at Bandelier, I have learned a lot about Pueblo archeology and also had a lot of fun. It was a good experience because it gave me real life experience of what it is like to be an archeologist. In the fall I will be attending the University of New Mexico where I plan to begin my goal to study Anthropology. In the more distant future, I hope to become an Archeologist. Thank you Friends of Bandelier for giving me the opportunity to work at Bandelier and learn the basics of field survey and begin learning about New Mexico archeology. I learned a lot and will be able to apply what I learned to school in the fall and hopefully to work at Bandelier again next summer.



# FRIENDS of BANDELIER *Membership* 2010

## OUT OF STATE

JOHN & PAT ACKER  
 VICTORIA ALLEN  
 ROBERTA & GARRICK BAILEY  
 SONJA BROOKS  
 GWEN BROYLES  
 MARY & BROWER BURCHILL  
 RICHARD & SUSAN CARLSON  
 GEORGE COCKS  
 GEORGE & JUDY CORT  
 HAZEL COX  
 WILLIAM D COX CHARITABLE  
 FOUNDATION  
 CLAYTON DAUGHENBAUGH  
 LYNNE & BRIAN DOMINY  
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 AMADOR REY ESTRADA JR  
 CAROLYN & DON ETTER  
 CAROLINA GARCIA  
 MIRIAM GILBERT  
 RON GOLDWYN  
 CHARLES & PRUDENCE GRIFFEN  
 M E & W D GULLICKSON  
 GRETCHEN GURTLE  
 EDWARD & CAROL HAMMEL  
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 BARRY HAYHURST  
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 IAN JACKSON  
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 CAROLINE KLINE  
 A C LAWSON  
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 PAUL & DONNA LUEHRMANN  
 SANDRA MACGILLIVRAY  
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 ROBERT & MARGE MCCARTHY  
 KERMIT & LINDA MOWBRAY  
 JOHANNA OGLE  
 ROGER & MARIE PETERSON  
 ROBERT & WILLOW POWERS  
 KAY LOCKRIDGE & R. PULITZER  
 TOM RIBE & MONIQUE SHOUSTRA  
 of Great SW Adventures  
 ROBERT ROHWER  
 BRETT ROORBACH  
 JOHN & MARY ROWLEY  
 DOROTHY SCANLON  
 JOHN SEAGRAVE  
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 PATRICIA TRUMBULL  
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 EULA WEST 87508  
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 ANONYMOUS  
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 GEORGE BEST  
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 LINDA DOOLEN  
 REGINA DOORN  
 MARILYN ELLIS  
 VIRGINIA EMELITY  
 DOLORES EVERETT  
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 PAUL FEHLAU  
 TERRY & JOHN FITZPATRICK  
 ROBERT & DEANNA FORSTER  
 RICHARD & MARILYN FOSTER  
 ART FREED  
 JAMES & VERA GALLAGHER  
 JULIA GAUTHIER  
 RORY GAUTHIER  
 JAMES & DENISE GEORGE  
 JAMES GILMORE  
 JUNE GLADNEY  
 PEGGY GOLDMAN  
 EV & ED GRIGGS  
 SARAH & JOHN GUSTAFSON  
 CAROL HANSON  
 ROSALIE & LEON HELLER  
 DOROTHY & DONALD HOARD  
 MOLLY & DALE HOLM  
 FRANCIS & BARBARA HONEY  
 LINDA & ROBERT HULL  
 ROBERT & SHARON HURDLE  
 JEANNE HURFORD  
 ELAINE & BRIAN JACOBS  
 ADELAIDE & EDWARD JACOBSON  
 DONNA GOAD & PAUL JOHNSON  
 LYNNE & MIKKEL JOHNSON  
 WILLIAM & EMILY JOHNSON  
 MARK & LYNN JONES  
 MAXINE JOPPA  
 CHRIS JUDSON  
 DON & MARY LOU KEIGHER  
 YVONNE & CHICK KELLER  
 TOM & MARLENE KELLEY  
 DONALD & FRANCES KENDALL  
 GREG & KAREN KENDALL

RICHARD KLAMANN  
 JACQUELINE & GORDON KNOBELOCH  
 FRANCES & JIM KNUDSON  
 MERLYN & PHYLLIS KRICK  
 ANDI KRON  
 MARGIE LANE  
 NANCY & ROSS LEMONS  
 ANN LEPAGE 87544  
 PIERRE LEVY  
 GAIL & JIM LITTLE  
 DORIS LODWIG  
 DON & JUDY MACHEN  
 EDWARD MACMANN  
 CRAIG & JUNE MARTIN  
 GEORGE MATTYS  
 HARRY & LAUREN MCGAVRAN  
 ELLEN MCGEHEE  
 ROBIN & RICHARD MCLEAN  
 DEBORAH & STEPHEN MCLIN  
 ROY & CHRIS MICHELOTTI  
 MARTIN & BARBARA MILDER  
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for  
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for  
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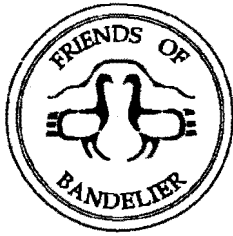
## Honoraria

(to honor living people)

for  
**Don and Carolyn Etter**  
 from  
 Tim and Zona Hostetter

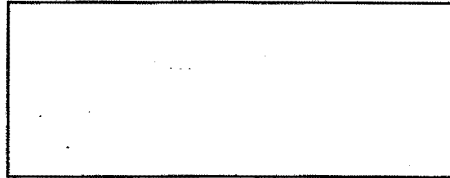
for  
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# *ANNUAL REPORT*

## *for 2010*

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