

GEO-HEAT CENTER QUARTERLY BULLETIN

ISSN 0276-1084

*A Quarterly Progress and Development Report on the Direct Utilization of Geothermal Resources***CONTENTS**

Comments from the Editor 1
Tonya “Toni” Boyd

The Economic, Environmental, and Social 2
 Benefits of Geothermal Use in Montana
Andrew Chiasson

Technical Assessment of the Combined Heat 9
 and Power Plant at the Oregon Institute
 of Technology, Klamath Falls, Oregon
Tonya “Toni” Boyd and Ronald DiPippo

Concentrated Solar and Geothermal Hybrid 16
 Power Project
Guy Nelson and Garth Larsen

Hybrid Geothermal and Solar Thermal 19
 Power Plant Case Study; Gümüşköy GEPP
*Ö. Çağlan Kuyumcu, Umut Z.D. Solarğlu, Sertaç
 Akar, Onur Serin*

A Thermoelectric-Based Point of Use..... 25
 Power Generator for Steam Pipes
*R. Dell, C.S. Wei, G. Sidebotham, Magnus Thor
 Jonsson, and Rdnar Unnpórsson*

Uses and Advantages of Geothermal 30
 Resources in Mining
Piyush Bakane

PUBLISHED BY

GEO-HEAT CENTER
 Oregon Institute of Technology
 3201 Campus Drive
 Klamath Falls, OR 97601
 Phone: (541) 885-1750
 E-mail: geoheat@oit.edu

EDITOR

Tonya “Toni” Boyd
 Cover Design – SmithBates Printing & Design

WEBSITE:

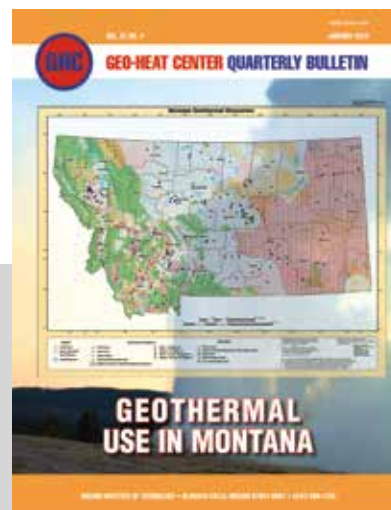
<http://geoheat.oit.edu>

ACKNOWLEDGEMENT

This material is based upon work supported by the Department of Energy (National Nuclear Security Administration) under Award Number DE-EE0002741.

DISCLAIMER

This *Bulletin* was prepared as an account of work sponsored by an agency of the United States government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply endorsement recommendation, or favoring by the United States Government or any agency thereof.



Cover: *Geothermal Resources in Montana*