

NAME

REDDY GANTA

TITLE

Sr. Agronomist, Glorieta Geoscience, Inc.
NRCS Certified Conservation Planner – CNMP

**EXPERIENCE
SUMMARY**

7 Years Experience encompassing the following areas:

Glorieta Geoscience, Inc., Santa Fe, NM – Sr. Agronomist, (12/15/2004 - Present)

Responsibilities include but not limited to:

- Preparation of Groundwater Discharge Permits, Surface Water Discharge Permits, and Air Quality Permits for agricultural, industrial and municipal operations
- Preparation of Comprehensive Nutrient Management Plans (CNMPs) and Nutrient Management Plans (NMPs) per NRCS and EPA guidelines
- Analysis of water quality, soil chemistry, crop uptake, and other related agricultural, biological, chemical data as it applies to environmental compliance issues for the dairy industry and related industries
- Compliance assistance for Federal, State, and local environmental permits
- Manage sampling, monitoring and reporting program for CAFOs, Golf Courses and Race Tracks
- Perform compliance inspections at CAFOs, Golf Courses, Race Tracks per EPA guidelines
- Research related to agronomy, nutrient management and other environmental issues affecting the dairy industry and related industries
- Database Development and Management, Data Analysis
- Computer Program design, analysis and coding for developing environmental informatics applications as required by the clients
- Fieldwork includes groundwater and Soil Sampling, Annual Inspections and Quarterly, Semi-Annual monitoring.

**SELECTED
PROJECT
EXPERIENCE**

Comprehensive Nutrient Management Plan (CNMP) development: CNMP development and implementation per NRCS guidelines for Concentrated Animal Feeding Operations (CAFOs) and other agricultural operations in the states of New Mexico and Nevada. Prepared NRCS approved CNMPs for over 8 dairies and Race Tracks in NM and NV.

Nutrient Management Plan (NMP) development: NMP development per EPA Region 6 guidelines for 2 dairies in NM. Prepared NMPs per EPA Region 6 CAFO Permit guidelines for 2 dairies in New Mexico.

Groundwater Discharge Permit Application Preparation: Prepared NMED Groundwater Discharge Permit applications for new and existing dairies, Golf courses, Race Tracks in NM. Prepared NMED approved discharge permit applications, discharge permit renewal and modification applications for more than 10 agricultural facilities.

Sampling, Monitoring and Reporting: Project Manager for sampling, monitoring reporting program for 30 dairies, Golf courses and Race Tracks. Responsible for timely submittals of quarterly monitoring reports, land application data sheets and annual crop balance reports.

Annual Site Inspections: Performed annual compliance site inspections per EPA standards at Dairies, Golf Courses, and Race Tracks. Conducted site

visits, reviewed compliance record keeping notebooks, prepared annual inspection reports per EPA standards and discuss improvement activities with dairy clients.

Environmental compliance assistance: Provided Compliance Assistance for over 26 CAFOs and other agricultural operations in New Mexico and Nevada. Assisted with Discharge Permit Compliance, Nutrient Management, Groundwater Remediation, and Soil Remediation. Responded to NMED correspondences, Request for Additional Information and Notice of Violations related to discharge permits. Coordinated with engineers, surveyors and geologists for lagoon design and construction and monitoring well installations per NMED specifications.

NRCS Environmental Quality Improvement Program (EQIP) Funding Assistance: Assisted agricultural facilities owners in acquiring NRCS EQIP funding for performing environmental improvement activities such as lagoon construction, center pivot installation, separator and pipeline installations etc.

Rio Rancho Water and Wastewater Database: Database design and development, SQL query development, Front-end programming, report design, and package deployment for managing groundwater production and monitoring well data. This Application was developed to automate recording of daily groundwater production data, monthly water level data, and wastewater data. The application also automates generation of quarterly and monthly reports according to the parameters entered by the user.

CAFOweb – Nutrient forecasting and Compliance management software for dairies and CAFOs: An online nutrient application forecasting system that provides real time management tools for land application of green water, manure and fertilizers. CAFOweb stores and analyzes dairy compliance and nutrient and water usage data, and prints user-friendly compliance management reports. Conceptualized and designed CAFOweb online database application. Prepared functional and technical specifications, designed reports and provided technical support to the CAFOweb development and testing team.

***E.coli* Strain Ribotype database for Source Tracking *E. coli* in Recreational and Wilderness Watersheds:** GIS mapping of study area, fecal coliform database creation, updating and maintenance; Source and Sink *E. Coli* strain ribotype database creation, Algorithm development for comparing source and sink data.

Effect of wastewater irrigation on soil chemical properties and heavy metal uptake by Maize plants: Soil, wastewater and plant samples collection, Analysis of soil, plant and water for physico-chemical properties and heavy metals; Statistical Data analysis to study the distribution patterns of heavy metals in soils and uptake of heavy metals by plants.

EDUCATION

M.S., Bioinformatics, Indiana University-Purdue University Indianapolis, Indiana 2002-2004

M.Sc., Agri. (Soil Science& Agril. Chemistry), ANGR Agril. University, India 1996-1998

B.sc., Agriculture ANGR Agril. University, India 1992 – 1996

COMPUTER SKILLS

Databases - SQL Server, MS Access
Prog. Languages - Visual Basic
Reporting Tools - Crystal Reports
GIS - ArcView, Arc/Info
Operating Systems - MS WINDOWS, MAC OS

PROFESSIONAL DEVELOPMENT/ TRAINING

- American Society of Agronomy, 12-week Course Fundamentals of Applied Agronomy (January-March 2011)
- WESST 8-week Intensive Business Skills Training Program for Entrepreneurs, Santa Fe, NM (April-June 2009)
- National Groundwater Association (NGWA), Analysis and Design of Aquifer Tests, Dublin, OH (June 18-20, 2007)
- New Mexico Comprehensive Nutrient Management Plan Workshop (December 13-16, 2004)
- Training in Source Tracking for fecal coliforms using RNA ribotyping, 2001
- Training in Arc View GIS, 2001

PUBLICATIONS

Ganta, R., Lazarus, Jay, and S. Lombardi, 2008, Sorting out manure management plan options. *Hoard's Dairyman – The National Dairy Farm Magazine* February 10, 2008: p.107.

Majhi, P.R., **Ganta, R.R.**, Vanam, R.P., Seyrek, E., Giger, K., and Dubin, P. 2006. Electrostatically driven protein aggregation: b-Lactoglobulin at low ionic strength. *Langmuir* 22(22):9150-9159.

Ganta, R., and K. Jeevan Rao. 2000 Impact of sewage irrigation on Macronutrient status of soils of Maize Research Station, Amberpet, Hyderabad *The Andhra Agricultural Journal* 36:245-251.

Ganta, R., and K. Jeevan Rao, 1999. Impact of long-term sewage irrigation on heavy metal accumulation in soils and plants. 2nd International Conference on Soil Contamination of Austral-Asia Pacific Region (SCRAP), New Delhi, India Dec 17-19, 1999.

PROFESSIONAL PRESENTATIONS

Presented a poster on "Electrostatically driven reversible aggregation of Beta-Lactoglobulin" at the Department of Chemistry, Indiana University-Purdue University, Indianapolis, IN. 2004.

Presented a paper "Impact of long-term sewage irrigation on heavy metal accumulation in soils and plants" in the 2nd *International Conference on Soil Contamination Research for Austral-Asia Pacific region (SCRAP)* held at New Delhi, India Dec 17-19, 1999.

Presented a poster on Impact of wastewater irrigation on heavy metal uptake by food crops at *The 64th Annual Convention of Soil Science and National Seminar on developments in Soil Science*, TNAU, Coimbatore, India, 1999.