

Giriprakash Palanisamy

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PRESENT POSITION:

Senior Informatics Analyst, Environmental Data Science and Systems, Environmental Sciences Division, Oak Ridge National Laboratory.

EDUCATION:

Diploma in Object Oriented Software Technology (OOST), Univ. of Calgary, Canada, 2001
M.Sc. in Environmental Science, Memorial University, St. John's, Newfoundland, Canada, 2000
M.Sc. in Soil Science, Tamil Nadu Agricultural University, Coimbatore, India, 1997

PROFESSIONAL EXPERIENCE:

June 2002 – Current Senior Informatics Analyst, Oak Ridge National Lab, Oak Ridge, TN
Responsibilities:

- Technical Leader, Mercury Metadata tool suite. Work includes all aspects of application design for various Mercury user interfaces and supervising the work of two developers.
- Systems Engineer, ORNL Distributed Active Archive Center (1/08-09/09). Work includes overall responsibility for the systems operations of the DAAC.
- Systems Engineer (since 12/2010) and Applications Architect (06/02-11/2010), Atmospheric Radiation Measurement (ARM) Archive. Work includes a wide range of programming and system design/development responsibilities, including managing all the data order user interfaces and designing tools for presenting summaries of the >180 TB of data in the archive.
- Project Leader, National Biological Information Infrastructure (NBII) Metadata Clearinghouse. Work includes managing and design of tools for the operation of the North American mirror for the Global Biological Information Facility (GBIF), and for managing all aspects of the harvest and indexing of the metadata in the NBII clearinghouse, and for managing the NBII web services registry and thesaurus services.
- Senior Developer and Co-Investigator, Discovery, Access, and Delivery of Data for the IPY (DADDI) project. Responsibilities included applying Mercury creating a portal for data about arctic coastal processes and integrating data from disparate data centers using OGC and related web services.

April 2001 – May 2002 Internet Applications Developer, Critical Mass, Calgary, Canada
Achievements/Responsibilities:

- Created/modified accessories for Build Your Own Mercedes Benz 2002 model for Mercedes Benz USA Ltd web site (<http://www.mbusa.com>), using java, EJB, Weblogic server
- Created new **Build Your Own** interfaces for **2003 Mercedes models** using XML data
- Created Marketing Portal Demo for mbusa.com, using java, EJB, Weblogic server
- Carried out online data comparison using Oracle/SQL for Mercedes 2001 models
- Designed and Developed Intranet application for Resource Allocation Request

RECENT AWARDS AND RECOGNITION:

- NASA ESDS Peer-Recognition Software Reuse Award (2008, for the Mercury Team)
- NASA's Group Achievement Award for Best Customer Support Team (2006)
- Received Best Poster Award (2007), ARM Science Team Meeting (Co-Author)

SELECTED ABSTRACT, PRESENTATIONS AND PUBLICATIONS:

R. Devarakonda, **G. Palanisamy**, J. Green, B. Wilson. Mercury: reusable metadata management, data discovery and access system; Earth Science Informatics: (2010) Vol 3, 1-2 (87-94), DOI: 10.1007/s12145-010-0050-7

Yilmaz, Pelin , Kottmann, Renzo, Field, Dawn, Knight, San Gil, Inigo, **Palanisamy**, Giriprakash and 43 co-authors. The "Minimum Information about an ENvironmental Sequence" (MIENS) specification. Available from Nature Proceedings <<http://dx.doi.org/10.1038/npre.2010.5252.2>> (2010)

R. McCord, **G. Palanisamy**, K. Gibson, C. Lenhardt, S. Moore. Data Extraction from the ACRF Archive: More Progress Toward Customized Data Delivery for the Users. 19th Annual ARM Science Team Meeting. (2009) 121

G. Palanisamy, B. Wilson, J. Green, R. Devarakonda. Mercury- A Distributed Metadata Management, Data Discovery and Access System. Proceedings of the Environmental Information Management Conference..(2008) 119-124.

Palanisamy, G., McCord, R., Horwedel, B., Cederwall, R., Kaiser, D., Moore, S., McCoy, R., Klein, S., and Xie, S. Using Statistical Views of Measurements to Guide ARM Data Discovery and Access. (Poster) Eighteenth Atmospheric Radiation Measurements (ARM) Science Team Meeting, March 10-14 (2008), Norfolk, Virginia.

McCord, R., A., Lenhardt, C. W., **Palanisamy, G.** Statistical Views from Deep Archives to Support Data Discovery: Learning from the Atmospheric Radiation Measurement Archive Experience. (Presentation) Scientific Information for Society from Today to the Future. 21st International CODATA Conference, October 5-8, (2008) Kyiv, Ukraine.

McCoy, R., Xie, S., Klein, S., Clothiaux, E., Long, C., Turner, D., Johnson, K., Jensen, M., Shi, Y., Cederwall, R., McCord, R., **Palanisamy, G.**, and Horwedel, B. Climate Modeling Best Estimate Dataset (CMBE) (Poster) Eighteenth Atmospheric Radiation Measurements (ARM) Science Team Meeting, March 10-14 (2008), Norfolk, Virginia.