

## **R. RICHARD MONK**

Division of Vertebrate Zoology  
American Museum of Natural History  
Central Park West at 79th Street  
New York, NY 10024  
203-210-7224 <monkr63@hotmail.com>

### **PERSONAL:**

Married to Hyeon Ok Park  
four children: Suzanne, Andrew, Richard Jr., and Michelle

### **EDUCATION:**

Brigham Young University, Provo, UT; B.S. 1987; Zoology: Clyde L. Pritchett, Advisor  
Texas Tech University, Lubbock, TX; M.A. 1990; Museum Science: Robert J. Baker, Advisor  
Texas Tech University, Lubbock, TX; PhD. 1997; Biology: Robert J. Baker, Advisor

### **MAJOR INTERESTS:**

Database development and museum data management,  
Development of systems to enhance use and management of museum collection databases,  
Design and development of dynamic, data-driven web sites,  
Collaborations between institutions to enhance data use and management,  
Systematics collection management and conservation practice.

### **20 YEAR EMPLOYMENT:**

1990-1991	Research Assistant, Carnegie Museum of Natural History and Seoul National University; project funded by World Health Organization
1991-1992	Teaching Assistant, Department of Biological Sciences, Texas Tech University
1993-1995	Curatorial Assistant, Museum of Texas Tech University, TTU
1995-1996	Collections Manager, Museum of Texas Tech University, TTU
1996-1997	Assistant Curator, Museum of Texas Tech University, TTU
1997-2003	Curator of Collections and Adjunct Professor of Museum Science, Museum of Texas Tech University, TTU
2003-2006	Curatorial Associate, Department of Mammalogy, American Museum of Natural History
2006-2010	Database and Web Administrator, Division of Vertebrate Zoology, American Museum of Natural History
2007-2010	Data Analyst, Starwood Hotels and Resorts

## **COMPUTER EXPERIENCE:**

Experience in DOS, Windows (3.x, 95, 98, NT, 2000 Professional, XP, Vista), and Macintosh environments;  
FileMaker Pro (2.6, 3.1, 5.0), Visual FoxPro (2.6, 3.0, 5.0, 6.0), MS Access (97, 2000, 2002), MySQL;  
Knowledge of relational database design principles and development;  
Programming languages: GW-BASIC, PRO-BASIC, VISUAL-BASIC, FORTRAN, OOP, PHP;  
Experience with cross-platform data migration;  
Experience with KE EMu customization, implementation, debugging, data migration, and use at AMNH;  
Experience with web site design and programming (MS FrontPage all versions), Dreamweaver (MX, CS3);  
Cold Fusion (4.5, 5.0), PHP;  
SQL, SQL\*Plus, PL/SQL;  
Extensive experience in design customization, data migration, system implementation, use and administration of KE EMu;  
Formal KE EMu training: Reports (Crystal 10), Administration, Web Objects.

Database applications developed (not an exhaustive list):

BYU Histology Collection: "HISTCOLL" GW-BASIC

TTU Frozen Tissue Collection Database FileMaker 2.1, 3.0

TTU Mammal Collection: "WildCat" (and modules) Visual FoxPro 3.0, 5.0, 6.0

TTU Mammal Collection: on-line catalog Cold Fusion 4.5, 5.0

AMNH Mammal Types Collection: on-line data and image catalog Access/MySQL/PHP

AMNH Mammal Collection: on-line catalog Access/MySQL/PHP

## **PROFESSIONAL AFFILIATIONS:**

American Society of Mammalogists (member of Informatics Committee)

Society for the Preservation of Natural History Collections (Documentation Committee co-chair)

Integrated Pest Management Working Group (Data Collections Subgroup chair)

Taxonomic Databases Working Group of IUBS

Natural Science Collections Alliance

Visual FoxPro Users' Group

Zoological Society of Korea

## **COURSES TAUGHT:**

ZOOL 260 (Human Anatomy) Teaching Assistant, BYU, 1985-1986

BIOL 1402 (Biology of Animals) Teaching Assistant, TTU, 1991-1992

MUSM 5340 (Museum Data Management) Instructor, TTU, 1998-2002

MUSM 5328 (Practical Experience in Web Site Design) Instructor, TTU, 2003

## **PUBLICATIONS:**

Allen, K.E., R.D. Bradley, R.R. Monk, O.V. Knyazhniksiy, N.C. Parker, D.J. Schmidly, and R.J. Baker. 2001. Employment of Geographical Information Systems for Determining the Accuracy of Museum Voucher Specimen Data. Occasional Papers, Museum of Texas Tech Univ. 210:1-8.

Baker, R.J., B. Albin, R.D., Bradley, J.J. Bull, J. Burns, K.A. Clark, G. Edson, R.E. Estrada, E. Farley, C.B. Fedler, B.M. Gharaibeh, R.L. Hammer, C. Jones, R. Monk, J.T. Montford, G. Moore, N.C. Parker, J. Rawlings, A. Sansom, D.J. Schmidly, R.W. Sims, H. Wichman, and F.D. Yancey. 1997. Natural Science Database: Resource Management and Public Health. Pp. 10-20 in Collaboration: The "Key" to Success: Proceedings of the 4th Annual Conference, Organization of Fish and Wildlife Information Managers, July 1996. (M. Shaughnessy, ed.), 96 pp.

Baker, R.J., C.J. Phillips, R.D. Bradley, J.M. Burns, D. Cooke, G.F. Edson, D.R. Haragan, C. Jones, R.R. Monk, J.T. Montford, D.J. Schmidly, and N.C. Parker. 1998. Bioinformatics, Museums and Society: Integrating Biological Data for Knowledge-Based Decisions. Occasional Papers, Museum of Texas Tech Univ. 187:i+1-8.

Kageyama, M., R.R. Monk, R.D. Bradley, G.F. Edson, and R.J. Baker. 2007. The Changing Significance and Definition of the Biological Voucher. Pp. 257-264 in Museum Studies: Perspectives and Innovations (S.L. Williams and C.A. Hawks, eds.). The Society for the Preservation of Natural History Collections, Washington, DC.

King, R.D., R.R. Monk, and R.J. Baker. 2000. Electronic Field Data Capture Using WildCat III. *Museology* 9:1-8.

Knyazhniksiy, O.V., R.R. Monk, N.C. Parker, and R.J. Baker. 2000. Assignment of Global Information System Coordinates to Classical Museum Localities for Relational Database Analyses. Occasional Papers, Museum of Texas Tech Univ. 199:1-15.

Monk, R.R. 1997. Automated Data Management in Systematics Collections. Unpublished PhD dissertation, Texas Tech University.

Monk, R.R. 1998. Bar Code Use in the Mammal Collection at the Museum of Texas Tech University. *Museology* 10:1-8.

Monk, R.R. and R.J. Baker. 2001. e-Vouchers and the Use of Digital Imagery in Natural History Collections. *Museology* 10:1-8.

Monk, R.R. and J.K. Jones, Jr. 1996. *Perognathus flavescens*. *Mammalian Species* 525:1-4.

Monk, R.R., R.D. Owen, S.L. Williams, and R.J. Baker. 1993. Unpublished Manuscript. Guidelines for the Management of Frozen Tissue Collections. 48 pp.

Parker, N.C., R.J. Baker, R.D. Bradley, C. Jones, R.R. Monk, D.J. Schmidly, R.W. Sims, and F.D. Yancey, II. 1997. Texas Tech University Museum and Texas GAP Program: a Partnership providing field data for GAP analysis. <<http://www.tcru.ttu.edu/tcru>>.

Parker, N.C., R.J. Baker, R.D. Bradley, C. Jones, R.R. Monk, D.J. Schmidly, R.W. Sims, and F.D. Yancey, II. 1998. A Partnership Providing Field Data for GAP Analysis: Texas Tech Museum and Texas GAP. Pp 37-39 in GAP Analysis Bulletin No. 7 (Brackney, E.S. and M.D. Jennings, eds.). USGS/BRD/GAP Analysis Program, Moscow, ID.

Parker, N.C., R.D. Bradley, J.M. Burns, G.F. Edson, D.R. Haragan, C. Jones, R.R. Monk, J.T. Montford, C.J. Phillips, D.J. Schmidly, and R.J. Baker. 1998. Bioinformatics: A Multi-disciplinary Approach for the Life Sciences. Occasional Papers, Museum of Texas Tech Univ. 186:i+1-4.

Williams, S.L. and R.R. Monk, 1999. Examining Dry Documentation Media for Permanent Hard Copy Collection Records. Pp. 225-234 in *Managing the Modern Herbarium: An interdisciplinary approach* (Metsger, D.A. and S.C. Byers, eds.). Society for the Preservation of Natural History Collections. xxii+384 pp.

Williams, S.L., R.R. Monk, and J. Arroyo-C. 1996. Applying McGinley's Model for Collection Assessment to Collections of Recent Vertebrates. *Collection Forum* 12(1):21-35.

#### POSTERS AND PRESENTATIONS:

Bar Code Use in the Mammal Collection at Texas Tech University

R. Richard Monk; poster presented at the ASM annual conference in Stillwater, Oklahoma (June 14-18, 1997)

Bar Code Use in the Mammal Collection at Texas Tech University

R. Richard Monk; poster presented at the SPNHC annual conference in Madison, Wisconsin (July 8-13, 1997)

New Technical Horizons: Collections Management and the Use of New Technologies (Bar code use in the mammal collection at Texas Tech University)

Richard Monk; presentation given at the Mountain Plains Museum Association annual meeting in Lubbock, Texas (October 1998)

Managing Museum Collections Using Geographic Information Systems

Kelly E. Allen, Nick C. Parker, R. Richard Monk, David J. Schmidly, Robert D. Bradley, and Robert J. Baker; presentation by Kelly Allen at the National GAP 2000 Meeting

A Voucher Specimen-based Biological Informatics Program

Robert J. Baker, Carleton Phillips, Robert D. Bradley, John M. Burns, Daniel Cooke, Gary F. Edson, Donald R. Haragan, Clyde Jones, R. Richard Monk, John T. Montford, David J. Schmidly, Kelly E. Allen, and Nick C., Parker; presentation by Robert Baker at the National GAP 2000 Meeting

Incorporation of Bar Code Capabilities to Existing Museum Databases

Susan E. Fishman-Armstrong, Heath J. Garner, R. Richard Monk, Jeff Indeck, Gary F. Edson, Nicola Ladkin, and Robert J. Baker; poster presented at the SPNHC annual conference in Halifax, Nova Scotia (July 8-14, 2000)

Electronic Field Data Capture Using WildCat III

Raegan D. King, R. Richard Monk, and Robert J. Baker; poster presented at the SPNHC annual conference in Halifax, Nova Scotia (July 8-14, 2000)

Assignment of Global Information System Coordinates to Classical Museum Localities for Relational Database Analyses

Oleksiy V. Knyazhnikiy, R. Richard Monk, Nick C. Parker, and Robert J. Baker; poster presented at the SPNHC annual conference in Halifax, Nova Scotia (July 8-14, 2000)

#### e-Vouchers and the Use of Digital Imagery in Natural History Collections

R. Richard Monk and Robert J. Baker; poster presented at the SPNHC annual conference in Halifax, Nova Scotia (July 8-14, 2000)

#### Assignment of Global Information System Coordinates to Classical Museum Localities for Relational Database Analyses

Oleksiy V. Knyazhnitskiy, R. Richard Monk, Nick C. Parker, and Robert J. Baker; poster presented at the TDWG annual meeting in Frankfurt, Germany (November 10-12, 2000)

#### e-Vouchers and the Use of Digital Imagery in Natural History Collections

R. Richard Monk and Robert J. Baker; poster presented at the TDWG annual meeting in Frankfurt, Germany (November 10-12, 2000)

#### Panel Discussion: Student Participation in SPNHC

Panelists: Catherine Hawks (chair), Jean DeMouthe, Richard Monk, Lisa Palmer, Jude Southward, Stephen Williams. SPNHC annual conference in San Francisco, California (June 21-26, 2001)

#### GIS as a Method for Improving IPM

R. Richard Monk, Joel B. Butler, Rod V. Sandoval, and Emma M. P. Dawson; presentation at SPNHC annual conference in Montreal, Quebec (May 10-12, 2002)

#### Challenges of Chornobyl Radioactive Vertebrate Collection: Are you willing to sacrifice?

Mariko Kageyama, R. Richard Monk, and Robert J. Baker; poster presented at SPNHC annual conference in Montreal, Quebec (May 10-12, 2002)

#### Designing a Rapid Entry Cataloging System for Use with Large Acquisitions and In-House Collections

Heath J. Garner, Jeongheui Lim, and R. Richard Monk; poster presented at SPNHC annual conference in Montreal, Quebec (May 10-12, 2002)

#### After the Move: Integrating Transferred Collections in Texas Tech University's Vertebrate Collections

Jeongheui Lim, Heath J. Garner, and R. Richard Monk; poster presented at SPNHC annual conference in Montreal, Quebec (May 10-12, 2002)

#### Using the Internet to Facilitate Access to Collections

R. Richard Monk (presented by Susan B. Baxevanis); AAM annual conference in Dallas, Texas (May 12-16, 2002)

#### The Integrated Pest Management Working Group

Richard Monk, Neil Duncan, Lisa Kronthal (Elkin), Chris Norris, and Rachael Arenstein; presentation at SPNHC annual conference in Albuquerque, New Mexico (May 23-27, 2006)

#### **STUDENTS:**

1. April L. Bates: 1997. Museum Science "Guidelines for managing a herpetology collection."
2. Terri L. Carnes: 2001. Museum Science. Special Project.

3. Emma M. P. Dawson: 2001. Museum Science. "Collections Documentation: Creating a relational database for the National Museum of Belize."
4. Christopher T. Dyer: 2002. Museum Science. Internship.
5. Holly J. Engelhart: 2001. Museum Science. Internship.
6. \* Susan E. Fishman-Armstrong: 2000. Museum Science. "Incorporation of bar code capabilities to existing museum databases."
7. \* J. Heath Garner: 2002. Museum Science. "A rapid data entry cataloging system for museum collections."
8. Britney J. Hager: 1998. Museum Science. "A policy guideline for the distribution of non-renewable frozen tissues in museums."
9. \* Amy S. Halter: 2001. Museum Science. "Standards for the management of Recent mammal collections."
10. Niko Herzog: 2000. Museum Science. "Preparation, casting and exhibition of Texas Aetosaurs."
11. Matthew O. Houle: 2000. Museum Science. Internship.
12. Camille A. Hunt: 2002. Museum Science. Internship.
13. \* Hye Kyoung Kang: 1999. Interdisciplinary Studies. Special Project: Use of computer networks in museum education programs.
14. \* Mariko Kageyama: 2003. Museum Science. "Re-evaluation of museum voucher specimens in modern biological research."
15. Shana N. Kelso: 2002. Architecture. "ADM: Architectural Database Management."
16. Raegan D. King: 2000. Museum Science. "Electronic field data capture using WildCat III."
17. \* Oleksiy V. Knyazhnitskiy: 1999. Interdisciplinary Studies. "Assignment of global information system coordinates to classical museum localities for relational database analyses."
18. \* Jeongheui Lim: 2003. Museum Science. Special Project. "Data collection methods for integrated pest management: a comparison of direct daily observation and pest trapping."
19. Kathryn MacDonald: 2003. Museum Science. "The use of surface laser scanning and three-dimensional computer modeling to create digital animation for museum research and exhibit."
20. Guy M. Mays: 2002. Museum Science. Internship.
21. Deborah A. Rose: 2002. Museum Science. Special Project.
22. Heidi N. Stevens: 2000. Museum Science.
23. Kelly A. Stevens: 1999. Museum Science. Internship.
24. Colin N. Thompson: 2001. Museum Science. Internship.

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\* chair of advisory committee