

VITA

Michael N. Keele

Oregon Zoo
4001 S.W. Canyon Road
Portland, Oregon 97221

EDUCATION:

On-going

- Portland State University
- Portland Community College
- AZA Conservation Academy – Science of Zoo and Aquarium Animal Management - 1995
- AZA Conservation Academy - Population Management - 1997
- AZA Conservation Academy - Principles of Elephant Management 1998

PROFESSIONAL MEMBERSHIPS:

- Association of Zoos and Aquariums - Professional Fellow
- Elephant Managers Association – Associate Member

HONORS:

- Certificate from AZA for Outstanding Service 2001-2002
- Certificate from AZA for Outstanding Service 1999-2000

CONSERVATION INVOLVEMENT:

- 2007 – present: World Association of Zoos and Aquariums – Global Elephant Management Program – Founding Member
- 2006 – present: The World Conservation Union (IUCN) Captive Breeding Specialist Group
- 2000 - present: AZA Elephant Taxon Advisory Group/Species Survival Plan(TAG/SSP) Chair
- 1998 - present: The World Conservation Union (IUCN) Asian Elephant Specialist Group
- 1996 - 2000: AZA – Species Coordinator for Elephant Species Survival Plan
- 1994 - 1999: AZA Elephant Management Task Force Member.
- 1993 - 1996: Western Regional Coordinator, Asian Elephant SSP
- 1989 - 1993: AAZPA Elephant Task Force Member (to develop management guidelines for elephants)
- 1987 - 1991: AAZPA Mammals Standards Committee Member.
- 1986 - present: North America Regional Asian Elephant Studbook Keeper
- 1986 - 1996: Asian Elephant Species Survival Plan Management Committee Member

CONSULTATION:

- 2006 – Cleveland Zoo, Ohio –Peer Review Africa Elephant Crossing Exhibit Project
- 2005 – Australia Appeals Tribunal – Expert Witness regarding the importation of Asian elephants from Thailand to zoos in Sydney and Melbourne
- 2005 – Taronga Zoo, Sydney, Australia – Review of elephant program and facilities.
- 2005 –Melbourne Zoo, Australia – Review of elephant facilities and management program, animal behavior training, and staff training.
- 2004 – ARK 2000 – Performing Animal Welfare Society (PAWS). San Andreas, CA. Review of elephant facilities and program for elephant care. AZA Committee review.
- 2003 – San Diego Wild Animal Park, San Diego, CA – Review of elephant facilities and program for African elephants imported from Swaziland, Africa.
- 2000 – El Paso Zoo, El Paso, TX – Allegations of elephant abuse – AZA Committee review.
- 1998 – Wildlife Safari, Winston, Oregon - Allegations of elephant neglect. AZA Committee review.
- 1996 - :Lincoln Park Zoo, Chicago, IL - Review of Elephant Management Program.
- 1990 - San Francisco Zoo, San Francisco, CA. - Elephant restraint chute design.

**DEFENDANT'S
EXHIBIT
DX25a**
ALL-STATE LEGAL SUPPLY CO.

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CONSULTATION: (continued)

- 1990 – Louisville Zoo, Louisville, KY – Expert witness for liability lawsuit involving visitor injury.
- 1990 - Point Defiance Zoo, Tacoma, WA - Elephant restraint chute design work
- 1989 – King’s Island, OH - Allegations of animal neglect – AZA Committee review
- 1988 – San Francisco Zoo, San Francisco, CA. - Allegations of elephant abuse – AZA Committee review.

PUBLICATIONS:

Keele, M. 1993. Flexibility: the key to today’s elephant management systems. In: *American Association of Zoological Parks and Aquaria Annual Conference Proceedings*, pp. 25-31. Wheeling, W. Va., AZA

Mellen, J. & Keele, M. 1994. Social Structure and behavior. In: *Medical Management of the Elephant* (Ed. By S. Mikota, E.L. Sargent & G. S. Ranglack), pp. 19-26. West Bloomfield, Michigan, Indira Publishing

Olson, D., Keele, M., & Tuttle, D. 1994. Husbandry and Management. In: *Medical Management of the Elephant* (Ed. By S. Mikota, E.L. Sargent & G. S. Ranglack), pp. 27-31. West Bloomfield, Michigan, Indira Publishing

Keele, M. 1996. North American Asian elephant birth statistics: what are the numbers telling us? *Journal of the Elephant Managers’ Association* 7, 29-32

Olson, D (2004). Elephant Husbandry Resource Guide – Mike Keele, Contributor. Published jointly by the Association of Zoos and Aquariums (AZA) Elephant Taxon Advisory Group/Species Survival Plan (TAG/SSP) and the International Elephant Foundation (IEF)

Brown, J., Olson, D., Keele, M., & Freeman, E. W. (2004). Survey of the Reproductive Cyclicity Status of Asian and African Elephants in North America. *Zoo Biology* 23:309-321

Hutchins, M., Smith, B., Keele, M. 2008. Zoos as responsible stewards of elephants. *In Elephants and Ethics: Toward a Morality of Coexistence*. Wemmer, C. & Christen, C. ed. John Hopkins University Press.

Hutchins, M., Keele, M. (2006). Elephant Importation From Range Countries: Ethical and Practical Considerations for Accredited Zoos. *Zoo Biology* 25: 219-233

Brown, J.L., Somerville, M., Riddle, H.S., Keele, M., Duer, C.K., Freeman, E.W. (2007) Comparative Endocrinology of Testicular, Adrenal and Thyroid Function in Captive Asian and African Elephant Bulls. *Gen Comp Endocrinol* 151 (2): 153-62. Epub 2007 Jan 20.

Freeman, E. W., Guagnano, G., Olson, D., Keele, M., Brown, J.L. in press. Social and Environmental Factors Influence Ovarian Acyclicity in Captive African Elephants. *Zoo Biology*

RELEVANT PRESENTATIONS:

Elephant Programs – Modeling a Future Through a Changing Landscape: Presented at AZA Annual Conference, Philadelphia, Pennsylvania – September 2007

Politics/Problems With Captive Elephants. Presented at USDA Exhibition Animal Training Course, Portland, Oregon - December 1989.

Housing and Husbandry Requirements. Presented at USDA Exhibition Animal Training Course, Portland, Oregon - December 1989.

Species Survival Programs (SSP) and Studbooks. Presented at USDA Exhibition Animal Training Course, Portland, Oregon - December 1989.

Breeding Asian Elephants in the United States. Paper presented at Elephant Breeding Symposium, Portland, Oregon - September 1983.

Getting Your Elephant (Management) Act Together. Paper presented at the Ninth Annual Elephant Workshop, Jacksonville, Florida - December 1988

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PROFESSIONAL EXPERIENCE:

Deputy Director – Promoted-July 2003 to current

Directs the administrative, operational and planning functions of the Living Collections (animal care, animal health, horticulture), Conservation (conservation, research, education), and Volunteer Divisions of Oregon Zoo. Plans, organizes, coordinates assigns and evaluates the work of veterinarians, researchers, educators, curators, managers and supervisors. Currently divisions employ 100 staff. Assists with the short and long-term planning of the Zoo; manages special projects or studies to meet the overall direction and objectives of the Zoo. Acts as Zoo Director in current director's absence

Assistant Director – Promoted-March 1998 to 2003.

Directs the administrative, operational and planning functions of the Animal Management/Living Collections division of Oregon Zoo. Plans, organizes, coordinates assigns and evaluates the work of veterinarians, researchers, collection managers, animal keepers, and horticulture staff. Division employs 80 staff. Assists with the short and long-term planning of the Zoo; manages special projects or studies to meet the overall direction and objectives of the Zoo.

General Curator – Promoted-January 1997 to March 1998.

Manages the administrative, operational and planning functions of the Animal Management division of Oregon Zoo. Coordinates the activities of the division with those of the education, visitor services, marketing, facilities management and development divisions. Plans, organizes, coordinates, assigns and evaluates the work of veterinarians, researchers, collection manager, and animal keeper staff. Division employs 60 staff.

Assistant Curator - Position reclassification – 1986 - 1997

Responsible for the Animal Care Program of the Animal Management Division. Oversee the daily care of the Zoo's animal collection. Supervise 35-45 animal care staff. Position reclassified from Animal Keeper Foreman in 1986 to recognize increased role with personnel management issues, policy development, conservation management, and division responsibility during General Curator absence.

Animal Keeper Foreman – Promoted – 1980 to 1986

Promoted in 1980. Responsible for the coordination, training, supervision and review of daily activities of between 25 and 30 animal care staff. Oversee daily care of Zoo's animal collection. Assist in acclimation process of newly acquired animals. Coordinate all internal animal moves; schedule animal shipments; design animal shipping crates. Facilitate research and conservation objectives. Coordinate Animal Keeper hiring process within Metro's guidelines. Share responsibilities for planning, design, construction, and start-up of new or renovated exhibits.

Elephant Keeper - Assigned in 1975

Participated as a team member providing daily care for the Zoo's breeding herd of Asian elephants. Assisted with the development and implementation of training programs. Involved with the events associated with parturition, hand rearing, and training of elephant calves. Contributed to, and participated in, research projects, keeper presentations, elephant rides, and media coverage. Participated in development of Asian elephant breeding program, husbandry protocol, foot care program, and record keeping systems.

Involved with the planning, design, and construction of the 1980 elephant exhibit addition which included the only hydraulic elephant restraint chute known. Functioned as keeper supervisor in the absence of the Animal Keeper Foreman and Senior Keepers.

Animal Keeper – September 1971

Trained to perform as a relief keeper in all of the Zoo's animal areas. Additional responsibilities included relief work at the Zoo's quarantine areas, preparing animal feed in the Zoo's commissary, volunteer supervision and night keeper/security routines.