

# **Michael E. Repkin**

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**Michael Repkin**

## **EXPERIENCE**

*Board of Directors President, Founding Member 2004 - present*

### **Urban Habitat Chicago**

Created the framework and direction for an organization devoted to promotion, education and research of sustainable building systems and building material usage within the Chicago metropolitan area | designed HR tracking program and training and evaluation program | recruit members for teams | organize events

*Principal, 2001– present*

### **Michael Repkin designs**

Ecological design, consultation, building and management of projects involving residential and commercial projects | development of biologically based products in the consumer, government and manufacturing sector | provides a broad range of human life support services and products | developing cost effective methods to implement food production on rooftops in the Chicago area

*Assistant Manager, 2001 - 2004*

### **Kinko's Inc.**

Provided leadership for the successful execution of organization objectives for a \$1.2 million dollar operation | identified and resolved problematic customer relations issues to ensure continuation of customer patronage and positive PR | provided scheduling and training for staff members | prepared daily reports for corporate accounting/ cash control/delivery of cash to deposit | performed inventory control including purchase order generation, order placing, receiving, and payment to vendors | managed production flow to ensure on-time delivery of custom orders

*Co - Worker, 1997- 2001*

### **Kinko's Inc.**

Provided customer service for clients with issues pertaining to design and production of documents | assisted clients with digital printing related problems | operated and performed troubleshooting for digital and analog document production machines | oversaw the return of spent cartridges to manufacturers and ensured the proper handling of other recyclable materials to ensure that the organization was achieving environmental goals and conceptual alignment

*Owner, 1996– 2001*

### **MER Biologicals**

Management and design of 40 sites using organic methods to provide clients with native, ornamental, medicinal and culinary plants in urban settings | designed and built a solar greenhouse for a residence that required virtually no maintenance and produced fish and greens | converted turfgrass areas into productive native plant habitats and food production zones | developed methodologies and materials to provide human powered landscape service to reduce hazardous and greenhouse gas | created proposals for multi-year projects with clients to meet stringent budget objectives | provide education and training to clients and sub-contractors on water management and recycling systems |

*Project Co-ordinator, 1996 - 2002*

### **Bateman Elementary School**

Development, design and implementation of 'Project Green', a program involving 1100 students in recycling, organic gardening, solar energy, human life-support, nutrient recovery and aquaculture | Provided instruction to staff and students and fielded questions from the community and parents | designed and created outdoor planting area to allow all students the opportunity to interact with soil and plants | designed and built integrated aquaculture unit to grow Tilapia and hydroponic houseplants | designed, built and demonstrated solar cooking oven | provided school with vermiculture systems and support | provided materials and support for seedling production of vegetables and native plants

## **EXPERIENCE**

*Medical Laboratory Specialist* 1988 - 1996

### **Department of Defense, United States Army Medical Corps**

- Medical Laboratory Specialist - responsible for accurate chemical, pharmaceutical, hormone and toxin analysis of serum specimens at an 800 bed hospital.
- Armed Forces DNA Identification Lab (AFDIL) DNA Repository.
- Armed Forces Institute of Pathology consult lab Histopathology Technician - worked with pathologists to prepare specimens for diagnosis of cancer and other disease processes.
- Worked in the AFIP microbiology division on independent research related to rapid identification of *Bartonella* species.
- Barracks Assistant Non Commissioned Officer In Charge - responsible for greater than \$250,000 dollars worth of property, developed work schedules for 28 personnel, performed inspections, and maintained supply and repair orders.
- Junior Enlisted Council President - Developed and executed projects to improve community service, social and educational opportunities for 98 personnel assigned to the AFIP

*Laboratory Assistant* 1989-1990

### **Northeastern Illinois University Biology Department**

- prepared reagents, solutions and materials for classrooms and research studies
- prepared, sterilized and dispensed culture media for bacterial and mycological studies: used automated equipment - Agarmatic with multi carousel plate filling apparatus
- maintained bacteriological and mycological stock cultures and performed routine purity checks to ensure culture performance

*Laboratory Assistant* 1984 -1988

### **Von Steuben Metropolitan Science Center Biology Department**

- prepared reagents and any necessary materials for classroom studies | inventoried and maintained lab equipment and supplies | maintained various plants and animals

*Principal Researcher* 1983 - 1989

### **Repkin Labs**

- Designed, built and maintained a microbiology laboratory focusing on gram-negative bacilli identification
- Prepared and tested culture media for sterility/performance
- Constructed an area that met P2 containment requirements (biosafety level 2) for study of antibiotic resistant strains of *Aeromonas hydrophila*

*Partner* 1981 - 1982

### **R+H Aquatics**

- collected and cultivated freshwater aquatic plants, fish and invertebrates for sale to the aquarium industry developed and sold frozen food preparations for aquatic animals

## **EDUCATION, INSTITUTIONAL**

B.A. Environmental Studies with a Minor in Art: Northeastern Illinois University, Chicago, IL - 135+ credit hours

Strategic Financial Operations Course, Kinko's, Chicago, IL, 2001

Branch Office Certification Program, Kinko's, Chicago, IL 1997

Histopathology Technician: Armed Forces Institute of Pathology, Washington, D.C., 1994

Air Assault School: Ft. Belvoir, VA, 1994

Integrated Aquaculture Systems Course: Ecologic Woods Hole Oceanographic institute, Woods Hole, Mass., 1990

Medical Laboratory Specialist: Health Science Academy, Ft. Sam Houston, TX, 1989

U.S. Army Initial Entry Training: Ft. Bliss, TX, 1989

High School Diploma: Von Steuben Metro Science Center, 1988

Advanced Microscopy: McCrone Institute, State Microscopical Society of Illinois, Chicago, IL, 1984

Basic Microscopy: McCrone Institute, State Microscopical Society of Illinois, Chicago, IL, 1984

Introduction to Limnology, John G. Shedd Aquarium, Chicago, IL, 1982

## **WORKSHOPS & LECTURES - LEADING**

14 November 2006, Urban Habitat Chicago, *Urban Habitat Chicago: Our Recent History of Creating Change Opportunities in Chicago*, Columbia College Product Design and Interior Architecture Departments, Chicago, Illinois

15 August 2006, Urban Habitat Chicago 2006 lecture series, *Deconstruction: Learning by Doing - The Kikuchi House*, Chicago Center for Green Technology, Chicago, Illinois

26 April 2006, Urban Habitat Chicago 2006 lecture series, *2175 House: Redesigning Human Habitation in Chicago*, Chicago Public Library, Lincoln Park Branch, Chicago, Illinois

08 March 2006, Urban Habitat Chicago 2006 lecture series, *Disseminated Biofiltration for Mitigation of Anthropogenic Contaminants*, Chicago Public Library, Budlong Woods Branch, Chicago, Illinois

May 2005, Urban Habitat Chicago, Lawndale Site, Chicago, Illinois— Adobe brick production workshop with hands - on production

17 May 2002, Illinois State University—Presented a two-hour lecture/workshop in Ecological Design for students, teachers and parents at the Illinois state competition of Illinois Future Problem Solvers

January—June 1997—Bateman Elementary School, Chicago, Illinois— Taught teachers and staff sustainable gardening practices from seedling production to harvest on a monthly basis

Summer 1989—Northeastern Illinois University Introduction to bacteriology for eighth graders as a part of a summer biology program

## **MEDIA APPEARANCES**

7 February, 2006, NEIU Independent, Article Describing UHC Dinner Experience

19 January 2006, Chicago Sun-Times, Featured Article Describing Food Production on Green Roofs at True Nature Foods in Chicago

13 July, 2006, NBC 5 Chicago, Morning News, Television Interview Concerning Food Production on Green Roofs at True Nature Foods in Chicago with Dick Johnson, aired 24 July, 2006

18 July, 2006, WTTW 11 Chicago, Chicago Tonight, Television Interview Concerning Food Production on Green Roofs at True Nature Foods in Chicago with Christian Farr, aired 26 July, 2006

2006, Inhabitat.com, Article concerning green roofs in Chicago with link and photo of True Nature Green Roof project site, photo by Michael Repkin designs

30 November, 2006, Time Out Chicago, Featured article with True Nature Green Roof

April 2007, Open Architecture Network Featured Project, collaboration of Michael Repkin Designs and Echo Studio

## **EXHIBITIONS**

March - April 2007, Columbia College DIY Culture, Urban Habitat Chicago Seedball Exhibit, Biological Consultant, Chicago, Illinois

19 April 2007, Northeastern Illinois University, Urban Habitat Chicago Exhibit, Earth Day Fair, Chicago, Illinois

21 April 2007, Northside Preparatory High School, Urban Habitat Chicago Exhibit, CASE Green Scene, Chicago, Illinois

## **COMMUNITY INVOLVEMENT**

28 April 2007, Bateman Elementary School, Painting Day with Home Depot, Chicago, Illinois

12 April 2007, Visit and Lecture to Students at Andrew Carnegie School, Chicago, Illinois

24 March 2007, Bloomingdale Trail Visioning Session and Design Charette, Visual Representation, Chicago, Illinois

30 January 2007, Area 2 Science Fair Judge, Walt Disney Magnet School, Chicago Public Schools, Chicago, Illinois

03 January 2007, Design Consulting and Evaluation, Little Village Environmental Justice Organization (LVEJO), Chicago, Illinois

1997 - 2000, Chicago Public Schools, Student Science Fair Judge, Chicago, Illinois

1996, C&O Canal Clean-Up Day, U.S. National Park Service, Washington, D.C.

1995- 1996, Auto Free D.C. Member and Activist, Critical Mass Participant for Rock Creek Park Rides

1995 - 1996, Organized Food and Clothing Drives for Armed Forces Institute of Pathology to Support Local Shelters, Washington, D.C.

1995 - 1996, Met Net Volunteer Cook and Information Table Attendant, Washington, D.C.

## **GRANTS**

City of Chicago 2007, Department of Environment, Green Rooftops for Chicago, Rooftop Food Production and Stormwater Utilization in Lawndale Neighborhood, PHA3600DB60623, Chicago, Illinois

City of Chicago 2006, Department of Environment, Green Rooftops for Chicago, Rooftop Victory Garden, True Nature Foods, Chicago, Illinois

Oppenheimer Foundation 2002– funding for instructing students on various solar projects

Oppenheimer Foundation 2000- funding to support Mars Millennium Project - student display at Adler Planetarium, Chicago

Student Science Fair 1983-1987-funding for microbiological research

Banker's Trust Company 1985-funding for microbiological research

## **DESIGN and PRODUCT RESEARCH & DEVELOPMENT**

### **2007**

New Method for Infusing Multi-Species Ceramobiotic Spheres with Seeds and Nutrients, Chicago, Illinois, 2007

Soil-Based Above Grade Vegetable Production in Urban Area, GV2607WH60659, Chicago, Illinois, 2007

### **2006**

Residential Landscape Design Proposal, EK ,Highland Park, Illinois, 2006

Rainwater Infiltration Area Design and Build, CRL5624NC60659, Chicago, Illinois, 2006

Design Concept Proposal for Vegetated Air Biofiltration Units for O'hare International Airport, Chicago, Illinois, 2006

Rooftop Vegetable Production Project to provide residents with food and purified rainwater for laundry use. Site:PHA3600DB60623, collaboration with Echo Studio and UHC, 2006

Rooftop Vegetable Production Project Build and Implementation for a Chicago Natural Foods Market, collaboration with Echo Studio and UHC, 2006

### **2005**

Residential Landscape Design/Build, PL7528NK60076, Skokie, Illinois, 2005

Residential Green Roof Design, collaboration with Echo Studio, CVL WN60660, 2005

Rooftop Vegetable Production Design for a Chicago Natural Foods Market, collaboration with Echo Studio, 2005

Energy Use Analysis and Design for Retail Space, 2005

Utilization of Post-Consumer Glass as an Aggregate Substitute in Concrete, 2005

Design for a Neighborhood Park/Plant Production Area in Chicago, Illinois, 2005

Proposal for Used Building Materials Recovery and Restoration Retail Facility (ReStore) for Habitat for Humanity, Windy City Affiliate, Chicago, Illinois, 2004 - 2005

### **2004**

Development of Alternative Structural Support Materials Utilizing Native Illinois Plants in The Chicago Metropolitan Area, 2004

Erosion Control and Food Production Consultation, Design and Build at a Residence in Oakland, California, 2004

Urban Food Production and Rainwater Harvesting Consultation for People's Grocery, Oakland, California 2004

Environmental Education and Food Production Design for Elm Place Middle School, Highland Park, Illinois, 2004

Biostabilization of Sand Roads in Sears, Michigan, 2004

## **2000 - 2003**

Rainwater Collection and Purification in the Chicago Metropolitan Area, 2003

Oyster Mushroom Production from Commercial and Residential Waste Sources, 2002

Residential Organic Food Production in Lima, Peru, 2001

Solar Oven Cooking Systems for Peru and United States of America, 2001

Biogenic Hydrogen Production from Short - Rotation Tree Crops in Urban Areas, 2000

Graywater Recycling Using Biological Filtration for Dish washing, 2000

## **<2000**

Automated Organic Hydroponic Food Production Systems for Urbanized Areas, 1999 - 2001

PULP –Pasteurized Urban Leaf Product, Developed with A.Turner 1999

NASA AO 99-HEDS-01 “Suitability of Martian Soil for Utilization in Biogenic Oxygen Production by Plant and Microbial Communities” , 1999

Organic Hydroponic Systems for Urbanized Areas, 1997 - 1999

Water Resource Analysis for Forest Park, Illinois, 1998

The Future of Food and Future Food Sources, 1998

Design/build Water Recycling Demonstration Unit for Elementary School, 1998

Master Plan Concept Report for Rockford and Outlying Cities: A Redevelopment Strategy, 1998

Design, Building and Operation of a Residential Passive Solar Greenhouse in Chicago for the Integrated Cultivation of Tilapia and Hydroponic Vegetables, 1998 - 1999

Development of Non-Petroleum Intensive Organic Residential Landscaping Service, 1994 - 2000

Water Reclamation and Reuse, 1996 - Present

Soil Enhancement and Substitution 1996 - Present

## <1995

Mass Production of *Bartonella* Species for Cellular Fatty Acid Analysis and Antigen Production, 1995 - 1996

Minimized Energy Input for Conservation of Cooking Fuel, TaCOS System Development, 1993

Soil-less Growth Systems for Indoor Food Production 1991-1996

Utilization of *Enterobacter aerogenes* in Heavy Metal Recovery 1987-1991 for patent development

Use of Algal and Bacterial Biomass for Soil Enhancement 1987 - 1989

Integrated *Tilapia*, Earthworm , Rabbit and Vegetable Production in Minimal Urban Space 1987-1991

Hydroponic Cultivation of *Raphanus sativus* in a Household for Consumption, 1988

Breeding of *Tilapia mariae* in Recovered Urban Household Water, 1987 - 1988

Anaerobic Stabilization of Decomposed Fish Fecal Solids for Application in Engineered Soils, 1987

## <1985

Seroconversion of mice using oral killed cell preparations of *Aeromonas hydrophila* 1985-1987

Native American Architecture Technology Adapted to Self-sufficient Housing Systems, 1984

Design, Construction and Performance Testing of Advanced Pressurized Portable Particle Restrictive Environment (AP3RE), 1984

Methods of Creating Potable Water With Minimal Inputs for Wilderness Survival Situations, 1983

Antibiotic Sensitivity of *Aeromonas hydrophila* 1983-1988

Rapid Identification of Gram - Negative Aerobes 1983- 1986

Treatment Comparison of *Aeromonas hydrophila* Infected *Bufo americanus*, 1983

Breeding, Raising and Sale of *Betta splendens*, 1983

Photosynthesis Driven Water Purification in Freshwater Aquaria, 1982

Development of Frozen Food for Aquarium Use, 1982

## **AWARDS, HONORS and RECOGNITION**

Certificate of Appreciation, Chicago Police Department, Sergeant's study group, 2001  
Employee of the month, June, Kinko's of Lincolnwood, 2001  
Volunteer of the Year Award, Bateman Elementary School, 1997  
Certificate of Meritorious Service, AFIP, 1996  
Joint Service Commendation Medal, 1996  
Army Good Conduct Medal, 1996  
Semester's Dean List, Montgomery Community College, MD, 1996  
Joint Service Achievement Medal, 1994  
Army Good Conduct Medal, 1994  
Joint Service Achievement Medal, 1993  
Army Achievement Medal 1992  
Soldier of the Day Award on guard mount, Fort Bliss, TX 1988  
Chicago Medical Society Achievement Award, 1988  
Chicago Public Schools, Certificate of Merit, Cross Country Team, June 1988  
Amoco Science Scholarship Award, 1988  
Certificate of Award, Von Steuben Metropolitan Science Center, June 1988  
Chicago Public Schools Student Science Fair Excellent Award in Zoology, April 1988  
Chicago Public Schools Student Science Fair Outstanding Award, District Competition February 1988  
Certificate of Recognition, Office of the Mayor, Chicago, 1988  
Illinois Junior Academy of Sciences, State Finalist, Outstanding, May 1987  
Illinois Junior Academy of Sciences, State Finalist, Paper Competition, Outstanding, May 1987  
Letter of Congratulation, Illinois State Senator Howard W. Carroll, 1987  
Certificate of Achievement, Youth Achievers, Office of the Mayor, Chicago, August 1986  
Chicago Public Schools Student Science Fair Outstanding Award, District Competition February 1986  
Certificate of Recognition, Office of the Mayor, Chicago, 1986  
Illinois Junior Academy of Sciences, Outstanding Science Scholar Award, May 1986  
Illinois Junior Academy of Sciences, State Finalist, Outstanding, May 1986  
Chicago Public Schools Student Science Fair Outstanding Award in Microbiology, April 1986  
American Society for Microbiology Junior Research Award, April 1986  
American Society for Microbiology Junior Research Award, May 1986  
Certificate of Recognition, Office of the Mayor, Chicago, 1985  
Chicago Public Schools Student Science Fair Outstanding Award in Microbiology, March 1985  
Chicago Public Schools Student Science Fair Certificate of Merit, paper symposium competition, March 1985  
Chicago Teachers Union, Award, April 1985  
Letter of Congratulation, Office of the Mayor, Chicago, September 1985  
Illinois Junior Academy of Sciences, State Finalist, Outstanding, May 1985  
Illinois Junior Academy of Sciences, State Finalist, First Place Award, May 1985  
The Metropolitan Sanitary District of Chicago, Certificate of Commendation, March 1985  
American Society for Microbiology Junior Research Award, March 1985  
The World Book Inc., Award, March 1985  
Chicago Public Schools Student Science Fair Outstanding Award, District Competition February 1985  
American Society for Microbiology Junior Research Award, April 1984  
Illinois Junior Academy of Sciences, State Finalist, Outstanding, May 1984  
Chicago Public Schools Student Science Fair Outstanding Award in Microbiology, April 1984  
Chicago Public Schools Student Science Fair Outstanding Award, District Competition February 1984  
The Science Man Press, Excellence award, April 1984  
First National Bank of Chicago, Special Award, March 1984  
Chicago Public Schools Student Science Fair Excellent Award, City Competition February 1983  
Chicago Public Schools Student Science Fair Outstanding Award, District Competition February 1983

## **Continuing Education**

### **CONFERENCE, LECTURE and WORKSHOP ATTENDANCE/PARTICIPATION**

**Green Home 411, Celeste Karan, Green Realtor Institute, Keller Williams Realty**, 10 February, 2007, Chicago Center for Green Technology, Chicago, Illinois

**Introduction to the Ethics of Sustainability, Rev. Claire Butterfield, Faith In Place**, 10 February, 2007, Chicago Center for Green Technology, Chicago, Illinois

**Mid-Am Green Industry Trade Show and Conference**, 18-19 January, 2007, McCormick Place Trade Center, Chicago, IL

**Massive Change Visionary Symposium**, 18 November 2006, Harris Theater, Millennium Park, Chicago, Illinois

**Healthy Homes Conference**, 21 October, 2006, DePaul University, Chicago, Illinois

**Solar Homes Tours**, 08 October, 2006, Stelle, Illinois

**Creative Engineering Systems for High Performance Buildings, Lev H. Zvenyach, IBC Engineering Services Inc.** , 23 May, 2006, Chicago Center for Green Technology, Chicago, Illinois

**Pioneering Engineers, David Hampton Jr.**, 17 May, 2006, Urban Habitat Chicago lecture series, Chicago Public Library, Lincoln Park Branch, Chicago, Illinois

**Graphic Design and Art in China, Yafei Wang, Vice Dean of The College of Fine Arts of Northeastern University , Shenyang, China**, 08 March, 2006, Northeastern Illinois University, Chicago, Illinois

**Fabrics in Architecture, David Hampton Jr.**, 01 March, 2006, Urban Habitat Chicago lecture series, Chicago Public Library, Budlong Woods Branch, Chicago, Illinois

**Mid-Am Green Industry Trade Show and Conference**, 19 January, 2006, McCormick Place Trade Center, Chicago, IL

**Life Cycle Thinking - Designing for Sustainability, Steelcase Inc.**, November, 2005, Chicago Center for Green Technology, Chicago, Illinois

**Combined Heat and Power (CHP) - A Tool for Architects and Engineers, John Cuttica and Dr. Steffen Muller, Midwest CHP Application Center, University of Illinois at Chicago**, November, 2005, Chicago Center for Green Technology, Chicago, Illinois

**Going Local: The Power of Growing Food Locally**, Christine Ahn of Food First, Brian Halwell of Worldwatch Institute and Brahm Ahmadi of People's Grocery, Ecology Center, December , 2004, Berkeley, California

**Introduction to Permaculture, Chicago Urban Permaculture**, City of Chicago North Park Village Nature Center , December, 2004, Chicago, Illinois

**Sustainable Building Materials Expo**, November , 2004, Chicago Center for Green Technology, Chicago, Illinois

**Viewing and Discussion of "The End of Suburbia: Oil Depletion and the Collapse of the American Dream", Chicago Urban Permaculture, Illinois Renewable Energy Association, Illinois Solar Energy Association, Open University of the Left**, City of Chicago North Park Village Nature Center, October , 2004, Chicago, Illinois

**Renewable Energy:Wind, Bill Becker of Aerotecture, Inc.**, October , 2004, Chicago Center for Green Technology, Chicago, Illinois

**Alternative Building Materials & Home Design for the Midwest, Lou Host-Jablonski of Design Coalition, Inc.** , October , 2004, Chicago Center for Green Technology, Chicago, Illinois

**United States Green Building Council (USGBC), Chicago Chapter , LEED NC 2.1 Overview Workshop**, October , 2004, Chicago Center for Green Technology, Chicago, Illinois

**LEED Extra Credit: Construction Waste Management, USGBC Chicago Chapter**, Chicago Center for Green Technology, Chicago, Illinois, October , 2004

**Sustainability Lecture Series United States Environmental Protection Agency Region 5 and United States Department of Housing and Urban Development , Financing Brownfield Redevelopment** , Chicago, Illinois , September , 2004

**Commercial Roofs: Cost Effective and Green, Jim Brosseau, Bennett and Brosseau**, Chicago Center for Green Technology, Chicago, Illinois , September, 2004

**Brownfields 2004 Conference, United States Environmental Protection Agency**, St. Louis Missouri , September , 2004

**Passive Solar Design, Bill Worn of Worn Jerabek Architects**, Chicago Center for Green Technology, Chicago, Illinois, September, 2004

**Greening Your Money, Jim Slama of Sustain and Glen Pierce of Raymond James & Associates**, Chicago Center for Green Technology, Chicago, Illinois , September , 2004

**Resource Efficient Landscape Design, WRD Environmental** , Chicago Center for Green Technology, Chicago, Illinois, September, 2004

**Environmental Protection Agency, Region 5, Sustainability Lecture Series, Civics and Advocacy for Sustainable Development**, Chicago, Illinois , August 2004

**American Planning Association Chicago Metro Section, “Reconciling the Tension between Sprawl and Density”**, Willow Springs, Illinois, August 2004

**Metropolitan Planning Council (MPC), Chicago, “Building Successful Mixed Income Communities Forum”**, Chicago, Illinois, August 2004

**Paul Loeb Lecture, book review *The Impossible is Going to Take a Little While***, Roosevelt University, Chicago , Illinois , August 2004

**Gastrointestinal Health/ Psychoneuroimmunology, book review *Gut Wisdom* by Alyce M. Sorokie**, Author Lecture Whole Foods, Chicago, Illinois, August 2004

**Case Study of Sustainable Building in Chicago: Sullivan Residence, 2004**, Chicago Center for Green Technology, Chicago, Illinois, August 2004

**Sustainable Building Materials Workshop**, August 2004, Chicago Center for Green Technology, Chicago, Illinois

**United States Green Building Council (USGBC), Chicago Chapter , LEED NC 2.0 Overview Workshop**, August 2004, Chicago Center for Green Technology, Chicago, Illinois

**Strawbale Construction Workshop**, July 2004, Chicago Center for Green Technology, Chicago, Illinois

**Bioneers Conference**, October 2001, San Rafael, California

**Bioneers Conference**, October 2000, San Rafael, California

**Bioneers Conference**, October 1999, San Rafael, California

**DNA Databanks and Repositories**, May 1993, Rockville, Maryland

## **COMPUTER SKILLS**

**SYSTEMS** PCs and MACs, DOS, Win 3.11, Win 95-2000, Win XP.

**OFFICE** Applications including MS Word, MS Excel, MS PowerPoint, MS Outlook, MS Publisher

**PHOTO** Micrografx Picture Publisher, Adobe Photoshop, Adobe Illustrator, Adobe Pagemaker and ID, Fractal Painter, MS Photo Editor,

**CAD** AutoCAD 2005

**GIS** Familiarized with Arc Info and Maptitude

**WEB** Developed several web sites using basic HTML editing and Dreamweaver, Flash

Open Office software, Serif Photo Editor 7, Serif Page Plus 7

**3D** Carrara 5.0 pro

## **DOCUMENT PRODUCTION EQUIPMENT**

Xerox 5690      Xerox Doc 12      Xerox Doc 40      Tektronics 7700      Cannon IR 800

Océ TDS 400 - certificate of user training June 20, 2002      HP oversize plotter

Zoomer Poster Banner Machine      Foam Core Mounter/Laminator      Pouch Laminator      Roll Laminator

Hydraulic Paper Cutter      Document Folder      Pad Creation Tool utilizing liquid adhesive

Velo binder      Comb binder      Coil binder      Tape binder      Booklet maker

## **LAB PROCEDURES and INSTRUMENTATION**

All basic and many advanced medical lab and histopathology lab procedures including autopsy and examination procedures

CHEM -Kodak Ektachem 800, Abbott TDM, Chloridometer

MICRO identification-BIOLOG, API, ROCHE Enterotube, Mini-Tek 96 well ID/MIC sensitivity

MICRO-AgarMatic media prep/sterilizer w/multi-carousel auto-plate dispenser

## **CONSTRUCTION and FABRICATION**

Basic carpentry skills and knowledge of operation of tools.

Pneumatic Nail Gun

Concrete Cutting Circular Saw gas and electric

Basic Operation of Bobcat and Case Unloader

Basic Concrete Pouring for Forms

Concrete Mixing by Hand and 5 cubic foot mixer

Earthen Biocomposite Formulation, Mixing, Construction and Finishing Plaster - Cob and Adobe

Basic framing and siding with lumber and plywood

## **LANGUAGES and INTERCULTURAL DEVELOPMENT**

Spanish - Read, write and basic conversation - spent four weeks in Peru in 1999 and two weeks in 2000

Korean - Read, write and very basic communication

member of Northeastern Illinois University Korean American Student Association—elected events coordinator 1999-2000  
performed mask dance during international festival at NEIU—created “Try to be Tri” campaign to recruit bilingual people to add another language to their skills to increase their capabilities to function within an international market framework and to help resolve linguistic barriers

Russian - *familiarized* reading/ basic interrogatives (one semester at University )

Hebrew - Read - *familiarized*

Mandarin Chinese - beginning study

## **CULININARY SKILLS**

- produced full meals and desserts for up to 120 people for special events
- able to cook in a wide range of situations from primitive survival to full service high technology
- can improvise new cuisine from materials at hand basic harvesting, milling and baking of grain skills
- can build equipment as necessary
- designed, built and utilized solar box cookers and taught construction/cooking techniques
- sensitive to food requirements of persons with dietary restrictions

## **REFERENCES**

*available upon request*