

## **EM Extension Program in Western Hemisphere: EM Technologies, Inc., Tucson, Arizona, USA.**

Glenn S. Kozawa

Production manager, EM Technologies, Inc.,

### **Abstract**

The EM Technologies, Inc., was established in the State of Arizona, United States of America, on June 15, 1993. We began our operation on December 1, 1993. Since then, research and development, model farm projects, outreach programs and education have expanded in United States and beyond its borders. In collaboration with EM Research Organization, we are in Canada, Mexico, Caribbean Islands and Central Latin America. This year we are activity engaged in marketing and promotion; and also, activity seeking registration of our products in each of the states and countries involved. With a small staff, we are covering one fourth of the world.

We would like to take this opportunity to express our sincere appreciation to this distinguish body of caring individuals and groups who came here throughout the world for the this conference and its organizers for allowing us, the EM Technologies, Inc., to present our work in the western hemisphere of our world. Our president, Mr. Izuo Miyashita, is honored to have our corporation and its work presented here today.

We are a young corporation with worldwide intent in its expansion program. Also, we are honored to be a part of this worldwide EM network. And, of cause, we cover a fourth of the world.

In June, 1993, EM Technologies, Inc., was incorporated in the States of Arizona, and its corporate offices and manufacturing plant established in Tucson, Arizona. In December, 1993, the production of EM began. The following year, the first phase of research and development began in the agriculture area. The model farm projects were initiated, and test marketing of our products began in the United States. In the latter part of the same year, the product registration was granted by the State of California, Department of Agriculture, and EM as a product, was certified by C.C.O.F. In 1995, the EM Training Seminar began in Ernest. And, the second phase of research and development began: animal husbandry issues.

Now, this year, 1996, we have begun to activity register our products in other states. And, we are fully engaged in marketing and promotion of EM. The line of products increased as well:

1. KEM-Microbial Inoculant for Soil and Plant
2. KEM-Bokashi compost

3. KEM-Kitchen Waste Compost Starter
4. KEM-Livestock Waste Treatment
5. KEM-Probiotics Feed Additive

We currently involved with the third phase of research and development: Environmental Issues. In addition, we are activity involved with community outreach programs with EM Bokashi. Also, we have expanded into Canada, Mexico, Central Latin America and the Caribbean. Depending upon our strategic planning, we are pursuing many avenues of approach that will help the agricultural, livestock, environmental and industrial capacity of the nation and its people; and its economic strength to help its people. As a result, we are pursuing and completing registration of our products; pursuing research and efficacy tests; helping small village to attain self-sufficiency to become financially independent; pursuing commercialization in some areas. We have training programs in Mexico and in Central Latin America. We have many projects in North America:

A. United States of America: 28

- |                    |    |
|--------------------|----|
| 1. Washington      | 3  |
| 2. Oregon          | 1  |
| 3. California      | 10 |
| 4. Arizona         | 7  |
| 5. Texas           | 2  |
| 6. Alabama         | 2  |
| 7. Georgia         | 2  |
| 8. Florida         | 1  |
| 9. Illinois        | 2  |
| 10. North Carolina | 1  |

\*Johrei Fellowship

B. Canada: 2

- |                     |   |
|---------------------|---|
| 1. British Columbia | 2 |
|---------------------|---|

C. Republic of United States of Mexico: 17

- |                   |   |
|-------------------|---|
| 1. Aguascalientes | 1 |
| 2. Morelos        | 1 |
| 3. Queretaro      | 8 |
| 4. Sonora         | 1 |
| 5. Sinola         | 1 |
| 6. Mexico D.F.    | 1 |
| 7. Hidalgo        | 1 |
| 8. Guerrero       | 1 |

- 9. Puebla 1
- 10. Guanajuato 1

**Total For North America: 47**

In Central Latin America and the Caribbean we have 15 projects;

- 1. Nicaragua 5
- 2. Costa Rica 6
- 3. Panama 2
- 4. Guatemala 1
- 5. Jamaica 1

EM Technologies, Inc. has four major division of activities:

- 1. Research and Development
- 2. Commercialization
- 3. Community outreach program and EM Bokashi Network
- 4. Education and Training

1. Research and Development – examples

- 1. Tucson, Arizona

City of Tucson, Waste water treatment project

- 2. Nicaragua

CIPI – EM	Brewery	-Residual water
	Tanneries	-Treatment of Chromiun
	Sugar refinery	-Residual wastes

- 3. Costa Rica

E.A.R.T.H. University: Bio-control of Sigatoka

Ornamental farms: Bio-control of Fusarium

- 4. Mexico

Monterrey Technological Institute – Queretaro Campus: conducting efficacy tests

2. Commercialization – examples

- 1. Farmers
- 2. Greenhouse nurseries
- 3. House hold usages and home gardens
- 4. Livestock treatment

## 5. Composting industry

### 3. Community outreach programs – examples

#### 1. Tucson United School District – Miles Exploratory Learning Center

- Cafeteria waste composting program
- Organic gardening

#### 2. Arizona School for the Deaf and Blind

- First institution in the EM Bokashi Network in the U.S.A.
- Cafeteria waste composting program
- Gardening
- Production of EM Bokashi

### 4. Education and Training – examples

1. EM training seminars at EM Technologies, Inc., R&D and corporate center
2. Tuskegee University, Alabama, U.S.A.
3. Acadesma Small Farmers Association: Nicaragua
4. Chiriqui Farmers Cooperative: Panama
5. UNI, UNA, UNAN-Leon: Nicaragua
6. University of Liberia: Guanacaste, Costa Rica
7. 1997: Exchange training and education program with Mokichi Okada Foundation: Kyusei Nature Farming Brazil

These are few of the work that we do in this western hemisphere.

Again, we are very grateful for allowing us to present our work to this distinguish body of caring people. From our president and all our staff – May this holiday season bring you much joy and happiness! Thank you very much!