THE ENVIRONMENTAL PROTECTION AGENCY'S WORKER PROTECTION POLICIES AND REGULATIONS. Kevin Keaney, US EPA, OPP, Washington, D.C. 20460

Kevin Keaney will discuss the policies and regulations of two major field programs that his office implements to protect the health and safety of workers in American agriculture. These programs are governed by regulations published in the Code of Federal Regulations (40 CFR, Parts 156, 170, and 171). The newer of these field programs, the worker protection standard, is designed to protect approximately 3.5 million migrant, seasonal and permanent agricultural workers from agricultural pesticides. The older field program, the pesticide applicator certification and training program, sets national standards for states, territories and tribes so that they can develop programs to ensure that applicators of the most toxic pesticides are knowledgeable about these pesticides' risks and uses. This national program annually trains and certifies millions of pesticide

OSHA PROGRAMS ON WORKER SAFETY, L. W. Michael and Frank R. Ciofalo, Division of Occupational Safety and Health, Department of Industrial Relations, Suite 1110, 45 Fremont Street, San Francisco, California 94105.

Soth OSHA and EPA have regulatory responsibility for the safe handling of Posticides. The Occupational Safety and Health Act of 1970 provides for an array of worker protection programs. These include the federal OSHA programs, the state COMA frograms and the state, county and municipal programs that function as extensions of these agencies. For example, the California EPA exercises jurisdiction in the Trication of pesticides. The majority of the applications are within agrigusiness. Cil/OSNA his price responsibility in non-agricultural workplaces. Enforcement gets the rejective of public attention in joint actions in farm labor, sweat shops and high visitility incidents like explosions. The promulgation of regulation is also a widely virging and schetches litigious venue. California has an independent Occupational Sifety and Health Standards Board with responsibility for adopting regulations far in

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FESTICITE SAFETY AND THE NATIONAL AG SAFETY DATABASE (NASD). R.W. Niomeier, Ni'SH, Cincinnati, OH., 45226 and P. Jones, University of Florida.

To proceed the national exchange of health, eafety and injury prevention for process the national exchange of health, eafety and injury prevention statemain and support the development of a coherent national program, the statemain as safety database (MASD) was developed. It is intended to be a statemain and the state

153. THE CONCEPT OF STEWARDSHIP IN THE AGROCHEMICALS INDUSTRY - THE ZENECA EXAMPLE BY CONCERN IN THE AGROCHEMICALS INDUSTRY - THE ZENECA EXAMPLE. B. G. Johnen, Stewardship Department, Zeneca Agrochemicals,

Stewardship in Zeneca Agrochemicals is defined as 'the responsible and ethical management of activities, concerning products and processes, from innovation to ultimate use and beyond'. It

therefore extends to all stages of the life-cycle of a product, ie R&D, Manufacture/Formulation, Daribution, Marketing, Use and Disposal. As defined, the concept of stewardship covers the traditional area of safety and health of Zeneca employees and environmental impact of Zeneca's operations (ie SHE) as well as product stewardship, usually associated with activities outside a empany's direct control. This holistic approach to the management of product and process related ativities befits the nature and use of crop protection products particularly well. For example, choice of apropriate formulation and packaging, including robust and lasting labels are as critical to the safe and efective use of the products as education and training at distributor, retailer, adviser and farmer level, which are usually associated with stewardship in crop protection.

154. RAISING SAFETY STANDARDS IN CROP PROTECTION: CASE STUDIES OF COLLABORATIVE SAFE USE PROGRAMMES. W. Ellis and G. Ytzen, Asia-Pacific Crop Protection Association, Bangkok, 10900 Italiand and APCPA, c/o Dow Elanco, Wanchai, Hong Kong.

Opinion on practical policy options for improving standards of safety in use of crop protection chemicals (CPCs) has in the past been sharply divided. The crop protection industry generally advocates a training and education French to safe use, whereas some members of the international donor community advocate increasingly restrictive egidnion, and participative IPM programmes aimed at dissuading farmers from using CPC's altogether. Recently, baser, a number of developments point towards a more constructive and inclusive attitude towards public-private

This paper examines some attempts to overcome such polarization in collaborative projects between the public ad pivase sectors. Ongoing case studies are presented to illustrate how such projects can help to foster mutual Edentarding between key stakeholders, and help to improve the effectiveness of our efforts to raise farmer awareness Edimprove field practice. Ultimately, only through the involvement and active commitment of all sectors (governments, ap protection industry, international donor community, academia and NGO's) can workable crop protection policy Thous be developed. Finally, pooling of resources will be essential if these policies are to be effectively implemented to buefit farmers and ensure food securing in developing countries.

PETITION TRACKING AND MANAGEMENT - STATE OF THE ART RESOURCES FOR WFICE AND FIELD USE. Clay Horan, SEA-TAC, Huntsville, AL 35815

Tracking pesticide use is an important part of pesticide management and safe handling. It is the basis for establishing worker exposure levels and demonstrating compliance. Through better tracking, record-keeping and therefore improved management, we can address exposure related problems. We new resources are emerging to meet this need. Originally developed for the agricultural industry, this technology has applicability throughout the industry.

Ne Pesticide Application Record-keeping and Tracking System (PARTS) is a Materof-the-art windows based chemical management software providing a pick and easy interface for chemical tracking. The Data Entry System is a true pen-technology, deigned around what workers have been using for trades - pen and paper. DES allows simple use of pen and paper for itld data collection and information access on pesticide handling.

SAFETY CONSIDERATIONS FOR INERT INGREDIENTS IN AGRICHEMICAL FORMULATIONS. J. S. Calanach, Exxon Chemical Company, Houston, Texas 77079

transled risk assessment practices as well as public interest and right-to-know drive need for development of transled no feed and ingentiant suppliers. riomation on inert ingredients in pesticide formulations. These data are used by inert ingredient suppliers, leading the ingredients in pesticide formulations. These data are used by inert ingredient suppliers, leading manufactured in pesticide formulations. These data are used by inert ingredient suppliers, and affectively manage these products' hazards handled on inert ingredients in pesticide formulations. These data are used by men ingredient shared shared manufacturers, and regulatory agencies to identify and effectively manage these products' hazards the base of the public to ensure they hat have manufacturers, and regulatory agencies to identify and effectively manage under the public to ensure they is browned as a foundation for communication to customers and the public to ensure they h browledgeable about these materials and how to handle them safely.