

DR. ANDERS HAS WORKED CLOSELY WITH NIOSH IN CINCINNATI AND OSHA IN SALT LAKE CITY. THESE INTERACTIONS HAVE FAMILIARIZED HIM WITH THE PROTOCOLS AND REQUIREMENTS FOR EVALUATING AIR SAMPLING DEVICES PERFORMANCE.

DR. ANDERS IS A MEMBER OF THE FORMALDEHYDE INSTITUTE WORK GROUP CURRENTLY SELECTING SAMPLING AND ANALYTICAL METHODS.

HE IS ALSO THE MANAGER OF OUR HARD WORKING TEAM OF SCIENTISTS THAT PIONEERED THE DEVELOPMENT OF DIFFUSIONAL AIR SAMPLERS.

THE SECOND PRESENTER THIS MORNING IS MS. RITA SHOR, DEVELOPMENT SPECIALIST IN OUR AIR SAMPLING PRODUCTS GROUP.

MS. SHOR RECEIVED HER BACHELORS DEGREE IN CHEMISTRY FROM CARDINAL STRITCH COLLEGE IN 1969. SHE HAS WORKED AT 3M SINCE 1973 IN BOTH CENTRAL RESEARCH LABORATORY AND OUR OH&SP DIVISION LABORATORIES. SHE HAS DEVELOPED AND EVALUATED AIR SAMPLING DEVICES SINCE JOINING THE OH&SP STAFF. CURRENTLY SHE IS A MEMBER OF THE ASTM COMMITTEE ON SAMPLING WORK PLACE ATMOSPHERES AND IS CHAIR PERSON OF THE PASSIVE SAMPLER SUB COMMITTEE. SHE IS ALSO A MEMBER OF THE AMERICAN INDUSTRIAL HYGIENE ASSOCIATION NEW COMMITTEE ON BIOLOGICAL MONITORING.

BEFORE WE BRING ON OUR FIRST SPEAKER, I WOULD LIKE TO REVIEW THE COURSE MATERIALS BRIEFLY.

YOU SHOULD HAVE ALL RECEIVED A COURSE NOTEBOOK WHICH CONTAINS ALL OF THE PERTINENT MATERIALS TO BE REFERENCED IN THIS COURSE. PLEASE NOTE THAT THERE IS A SECTION IN THERE FOR NOTE TAKING. ADDITIONALLY, THERE IS A COLORED PIECE OF PAPER WHICH CONTAINS A SHORT QUESTIONNAIRE AND AT THE BOTTOM A CERTIFICATE INDICATING ATTENDANCE AT TODAY'S SEMINAR.

WE WILL ASK YOU AT SOME TIME DURING THE COURSE OF THE DAY THAT YOU WILL TAKE JUST A FEW MOMENTS TO FILL OUT THE QUESTIONNAIRE AND LEAVE IT AT THE REGISTRATION TABLE AT THE END OF THE DAY. IF YOU WISH, YOU MAY TAKE THE QUESTIONNAIRE WITH YOU AND FILL IT OUT AT YOUR LEISURE AND MAIL IT BACK TO ME AT THE ADDRESS INDICATED ON TOP. PLEASE TEAR OFF AND RETAIN THE BOTTOM SECTION, AND SUBMIT IT TO THE AIHA TO OBTAIN ONE MAINTENANCE POINT TOWARDS THE AIBH CERTIFICATION.

IF THERE ARE NO QUESTIONS, I WOULD LIKE TO INTRODUCE DR. LEON ANDERS.

INTRODUCTION

I. WELCOME

WELCOME TO THE 3M COMPANY AND TO OUR SEMINAR
"FIELD APPLICATIONS OF DIFFUSIONAL AIR SAMPLING."

MY NAME IS JIM KVIKSTAD. I AM WITH 3M AND I WOULD
LIKE TO TAKE JUST A FEW MINUTES TO ACQUAINT YOU
WITH WHAT WE HAVE PLANNED FOR TODAY.

II. YOU ALREADY RECEIVED AN AGENDA FOR THE SEMINAR IN YOUR INVITATION, AND THERE SHOULD BE ANOTHER COPY INCLUDED IN THE MATERIALS THAT YOU PICKED UP AT THE REGISTRATION DESK.

WE WILL TAKE A 15 MINUTE COFFEE BREAK AT 10:00. WE
WILL BREAK FOR LUNCH AT 12:00. THERE WILL BE ANOTHER
COFFEE BREAK AT 2:00 AND WE SHOULD ADJOURN BY 4:30
THIS AFTERNOON.

FOR YOUR INFORMATION, THERE ARE RESTROOMS LOCATED

THERE ARE PUBLIC TELEPHONES

III. ABOUT 3M

AS THEY SAY ON THE TELE, OUR SHOW WILL BEGIN IN JUST A MINUTE, BUT FIRST A WORD FOR OUR SPONSOR. I WOULD LIKE TO TAKE THIS OPPORTUNITY TO JUST TELL YOU A LITTLE ABOUT OURSELVES; WHO WE ARE AND WHAT WE DO. ALSO A LITTLE ABOUT THE PEOPLE YOU WILL BE HEARING FROM TODAY.

THE 3M COMPANY IS A DIVERSIFIED WORLDWIDE MANUFACTURER OF HIGH QUALITY PRODUCTS WHICH COVER THE INDUSTRIAL, COMMERCIAL, PROFESSIONAL AND CONSUMER MARKETS. OUR PRODUCTS TOUCH THE LIVES OF NEARLY EVERYONE IN SOME WAY ALMOST EVERY DAY. 3M EMPLOYEES IN ALL AREAS OF OPERATION ARE CONCERNED WITH CUSTOMER NEEDS AND CONSTANTLY STRIVE TO DEVELOP NEW AND BETTER PRODUCTS TO MEET THESE NEEDS.

IN 1981, OUR COMPANY WAS REORGANIZED INTO FOUR BUSINESS SECTORS WHICH COMBINE SIMILAR BUSINESS ENTERPRISES AND RELATED TECHNOLOGIES. THESE BUSINESS SECTORS ARE HEADED BY FOUR EXECUTIVE PRESIDENTS WHO REPORT TO MR. LEHR, OUR CHIEF EXECUTIVE OFFICER.

THE FOUR BUSINESS SECTORS ARE THE ELECTRONIC AND INFORMATION TECHNOLOGY SECTOR; THE GRAPHIC TECHNOLOGY SECTOR; THE INDUSTRIAL AND CONSUMER SECTOR; AND LIFE SCIENCES SECTOR. EACH BUSINESS SECTOR IS MADE UP OF PRODUCT GROUPS WHICH IN TURN, ARE COMPRISED OF OPERATING DIVISIONS.

EACH DIVISION OPERATES AS A PROFIT CENTER ON A WORLDWIDE SCALE AND CONDUCTS ITS OWN RESEARCH AND DEVELOPMENT AND MANUFACTURING OPERATIONS. INDIVIDUAL DIVISIONS RESEARCH IS SUPPORTED BY SECTOR LEVEL TECHNICAL PROGRAMS TO SEEK NEW TECHNOLOGIES AS WELL AS NEW APPLICATIONS AND EXISTING TECHNOLOGIES. WE ALSO HAVE A CORPORATE CENTRAL RESEARCH FACILITY WHICH CONDUCTS LONGER RANGE RESEARCH STUDIES AIMED AT DEVELOPING NEW TECHNOLOGIES.

THIS SEMINAR TODAY IS BEING SPONSORED BY THE OCCUPATIONAL HEALTH AND SAFETY PRODUCTS DIVISION WHICH IS IN THE TRAFFIC AND PERSONAL SAFETY PRODUCTS GROUP WITHIN THE LIFE SCIENCES SECTOR. THE PRODUCTS WE MAKE IN OUR DIVISION ARE ILLUSTRATED ON THE SCREEN:

PERSONAL ENVIRONMENTAL SYSTEMS WHICH ARE AIR SUPPLIED HELMETS WORN FOR WORKERS INVOLVED IN WELDING, SAND BLASTING, SPRAY PAINTING, PLUS NUMEROUS OTHER ACTIVITIES IN HEAVY INDUSTRY SUCH AS FOUNDRIES, STEEL MILLS, CHEMICALS PLANTS AND OTHERS.

ADDITIONALLY, THERE IS A LINE OF GAS AND VAPOR RESPIRATORS WHICH CAN BE COMBINED WITH PREFILTERS TO GIVE PROTECTION NOT ONLY FOR GAS AND VAPORS BUT ALSO AGAINST PARTICULATES. IN ADDITION TO THIS, THERE IS A LINE OF PARTICULATE RESPIRATORS OFFERING PROTECTION AGAINST HAZARDS RANGING FROM NUISANCE DUST UP THROUGH AND INCLUDING HIGH EFFICIENCY RESPIRATORS.

THE GROUP THAT IS SPONSORING THIS SEMINAR IS THE AIR MONITORING GROUP WHICH MANUFACTURES A LINE OF DIFFUSIONAL AIR SAMPLERS.

THERE ARE PRESENTLY ABOUT FORTY 3M OPERATING DIVISIONS WHICH MANUFACTURE AND SELL THOUSANDS OF PRODUCTS. THESE PRODUCTS CONSTITUTE OUR 45 MAJOR PRODUCT LINES MOST OF WHICH ARE SOLD IN THE 10 MAJOR MARKETS.

TO TRANSFORM THESE TECHNOLOGIES FROM THEORY INTO PRODUCTS THAT CAN BE UTILIZED ARE 91,000 TOTAL EMPLOYEES OF THE 3M COMPANY. THERE ARE 54,000 IN THE UNITED STATES, 12,000 OF WHICH ARE HERE AT THE 3M CENTER. ALL 12,000 EMPLOYEES ARE IN ADMINISTRATIVE AND TECHNICAL CAPACITIES.

3M COMPANY HAS ESTABLISHED SIGNIFICANT PRODUCTION AND DISTRIBUTION FACILITIES IN OVER 100 COMMUNITIES LOCATED IN 34 STATES. THIS WIDE RANGE NETWORK AND ASSOCIATION INSURES THAT WE CAN MEET THE SUPPLY AND SERVICE REQUIREMENTS OF OUR CUSTOMERS ANYWHERE IN THE COUNTRY.

MORE THAN 37,000 OF 3M EMPLOYEES ARE LOCATED IN OUR SUBSIDIARY OPERATIONS OUTSIDE THE U.S. THE VAST MAJORITY ARE NATIONALS OF THE COUNTRY IN WHICH THEY WORK. CURRENTLY WE HAVE OPERATIONS IN 54 NATIONS AND MANUFACTURING FACILITIES IN 31 COUNTRIES. 3M PRODUCTS ARE MARKETED IN MORE THAN 100 COUNTRIES AND NEARLY ALL PRODUCTS MANUFACTURED OVERSEAS ARE SOLD THERE. BECAUSE OF OUR SIGNIFICANT OVERSEAS OPERATIONS, ONE IN EVERY SIX JOBS IN THE COUNTRY IS DIRECTLY ATTRIBUTED TO OUR INTERNATIONAL

BUSINESS.

SO MUCH FOR THE 3M COMPANY, NOW A LITTLE ABOUT THE SEMINAR FOR TODAY.

THIS SEMINAR IS SPONSORED BY THE AIR MONITORING GROUP OF THE OH&SP DIVISION. THIS GROUP IS RESPONSIBLE FOR A LINE OF DIFFUSIONAL AIR SAMPLING DEVICES.

OUR TWO PRINCIPLE SPEAKERS THIS MORNING ARE DR. LEON ANDERS, THE MANAGER OF OUR RESEARCH AND DEVELOPMENT OF AIR SAMPLING PRODUCTS AND MS. RITA SHOR, A DEVELOPMENT SPECIALIST IN THE AIR SAMPLING PRODUCTS LABORATORY.

DR. ANDERS RECEIVED HIS BACHLORS DEGREE IN PHYSICAL SCIENCE FROM WAYNE STATE COLLEGE IN 1962, HIS MASTERS IN PHYSICAL CHEMISTRY FROM BOWLING GREEN STATE UNIVERSITY IN 1967 AND HIS DOCTORATE IN PHYSICAL CHEMISTRY FROM IOWA STATE UNIVERSITY IN 1973. HIS DOCTORAL DISSERTATION PERTAINED TO MOLECULAR PROCESSES ON SOLID SURFACES, INCLUDING TRANSPORT AND ADSORBTION PHENOMONEN.

DR. ANDERS HAS CHAMPIONED THE DIFFUSIONAL METHOD OF AIR SAMPLING SINCE 1977. HIS EXTENSIVE RESEARCH IN THIS AREA CURRENTLY BRINGS NATIONAL INVITATIONS TO SPEAK ON THE TOPIC - MOST FREQUENTLY AS THE COURSE INSTRUCTOR FOR AN AIHA MAINTENANCE CREDIT COURSE ON THIS SUBJECT.

3M 001179