

2ND NATIONAL SEMINAR ON
OCCUPATIONAL HEALTH,
SAFETY, ENVIRONMENT &
FIRE CONTROL

ORGANIZED BY

THE INSTITUTION OF ENGINEERS
PAKISTAN

KARACHI CENTRE

OCCUPATIONAL HEALTH, SAFETY, ENVIRONMENT & FIRE CONTROL

BY

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KARACHI CENTRE

THREE PHASES OF SOCIAL DEVELOPMENT

-FIRST WAVE: 12000 YEARS

- LANDLORD FEUDALISM

-SECOND WAVE: (STARTING 1760's)

250-300 YEARS

- INDUSTRIAL DEMOCRACY

-THRID WAVE: (STARTING 1960's)

- GLOBAL VILLAGE

THREE MAJOR INVENTIONS

1764 – SPINNING JENNY (ENGLAND)

1784 – POWER LOOMS (ENGLAND)

1794 – THE COTTON GIN (UNITED STATES)

STEAM AND ELECTRICAL MOTIVE POWERS

changed

CRAFTSMAN

to

FACTORY WORKER

WORK COTTAGES

to

FACTORY

OHSE LEGISLATION

UNITED STATES

1913 – HEALTH & SAFETY BECAME GENERAL
ELECTION ISSUE

1914 - WORKMEN'S COMPENSATION ACT

1918 – AMERICAN ENGINEERING SERVICES
COMMITTEE (AES)

1928 – AMERICAN NATIONAL SAFETY INSTITUTE (ANSI)

1939 – AMERICAN INDUSTRIAL HYGIEN ASSOCIATION

1970 – OCCUPATION SAFETY & HEALTH ACT (OSHA)

OHSE LEGISLATION

UNITED KINGDOM

1883 – FACTORIES ACT

- WORKERS COMPENSATION LAWS

1974 – HEALTH AND SAFETY ACT

SUB-CONTINENT

1883 – FACTORIES ACT

1934 – FACTORIES ACT

OHSE LEGISLATION

UNITED NATIONS

ILO – INTERNATIONAL LABOR ORGANIZATION

1905

1906

1913

BERNE CONFERENCES

1976 – ILO PAKISTAN AGREEMENT “Strengthening
of Factories Inspectorate in Sindh & Punjab

THREE E's OF SAFETY

E – ENGINEERING

E – EDUCATION

E – ENFORCEMENT

If we can't afford safety,
we cannot afford to be in business

OHSE & FC

IDEAL OBJECTIVES

- **No Accident**
- **No Harm to People**
- **No Damage to Environment**

OHSE MANAGEMENT SYSTEM

- **Safety and Accident Prevention**
- **Plant and Equipment Integrity**
- **Pollution Prevention**
- **Personal and Occupational Health**
- **Environmental Soundness**
- **Personal and Physical Security**
- **Product Stewardship**
- **Sustainable Development**

INDUSTRIAL ACCIDENTS REPORTED IN KARACHI

| <u>YEAR</u> | <u>FATAL</u> | <u>SERIOUS</u> | <u>MINOR</u> | <u>TOTAL</u> |
|-------------|--------------|----------------|--------------|--------------|
| 1999 | 7 | 6 | 16 | 29 |
| 2000 | 6 | 25 | 58 | 89 |
| 2001 | 22 | 12 | 14 | 48 |
| 2002 (Sep) | 27 | 3 | 20 | 50 |

Fatal: Accident resulting in death.

Serious: Injuring causing absence from work exceeding 20 days.

Minor: Causing a workman to be absent for 48 hrs from work.

CARE IS A LOT BETTER THAN CURE

PLEASE TAKE CARE

THANK YOU