

Predictions of 20th Century

January 2,1901 Hochi News Paper, Japan

Predictions of 20th Century (January 2, 1901: Hochi News Paper, Japan)

(a) Radiophone and Phone

Further development of radiotelegraphy invented by Marconi will enable people to talk with each other from various countries around the world. Thus, a person in Tokyo will be able to talk freely with a friend in London or New York.

(b) Long Distance Photography

Within several decades, when war clouds cover Europe, a newspaper reporter in an editing room in Tokyo will be able to catch the real-time situation via electrically transmitted colored photos (movies?).

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(c) Extinction of Wild Animals

No wild animals such as lions, tigers and crocodiles will be seen in their natural habitats, even in wilderness areas such as in Africa. They will only be seen in zoos in big cities.

(d) The Sahara Desert

The Sahara desert will be transformed to fertile plains a step at a time, and civilization will develop in China, Japan and Africa.

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(e) Round-the-world Tour in 7 Days

A round-the-world tour, which required at least 80 days at the end of 19th Century, will take only 7 days at the end of the 20th century. Further, both ladies and gentlemen in the world's civilized countries will make a leisurely tour of the world at least once in their lives.

(f) Extinction of Mosquitoes and Fleas

With the development of social sanitation works, mosquitoes, fleas and so on will gradually perish.

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(g) Freedom from Hot and Cold

New air-conditioning equipment will be invented to control and maintain room temperatures in a comfortable condition. This may facilitate development in African countries.

(h) Photo Telephone

Equipment will be invented that will show a picture of the person who is talking on the phone.

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(i) Expedient Device for Shopping

Infrastructure such as underground steel piping will be invented that will enable checking and choosing of products via a photo telephone from a far away place, and making a trading contract, so that the product can be immediately obtained.

(j) Electric World

Because of the shortage of firewood, charcoal and coal, electricity will become the main fuel.

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(k) Speed of Trains

Development of the cigar shaped locomotive invented at the end of 19th century will be completed. Cars will be the size of small houses, and will be provided with various equipment and facilities for passengers convenience, enabling them to forget that they are traveling. Compartments will be made warm in winter and cool in summer. Train speed will be 2miles/min (190km/h) for ordinary trains, and 150miles/h (240km/h) for express trains. Thus, it will take 2.5hours to travel from Tokyo to Kobe, and 1 entire day to travel from New York to San Francisco, which takes 4.5days at present. Furthermore, as they will of course not use coal power, they will not be smoke-blackened, nor require stops for water supply.

(l) Medical Development

Drugs will no longer be used. An electric hypodermic needle will be used to painlessly inject liquid medicines into localized parts. With the development of X-rays and microscopes, diseased parts will be quickly and easily diagnosed, enabling immediate and appropriate treatment. More than 90% of internal medicine will moved to surgery. Then, for example, pulmonary tuberculosis will be healed by killing the virus by extracting and sterilizing the lungs. Surgical operations will be performed electrically, and will be painless.

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(m) World of Motoring

Horse drawn carriages will disappear, motor cars will become popular and they will be available at a low price. Bicycles and motorcars will be used by the military instead of horses. Horses will be bred only by dilettantes.

(n) Free Communication between Man and Animals

Animal language study will develop, animal language classes will be taught, and human beings will be able to talk freely with dogs, cats and monkeys. As a result, menial work traditionally done by male and female servants will be mainly done by dogs, and dogs will run errands.

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(o) Abolition of Kindergarten

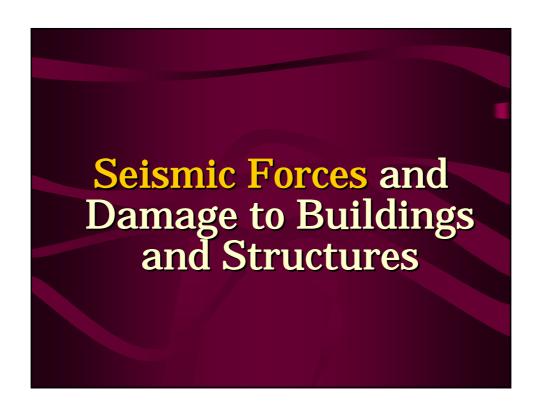
Since human intelligence will be highly developed by heredity and there will be no uneducated persons in a family, there will be no need for kindergartens. Neither men nor women will be treated as independent if they have not graduated from a university.

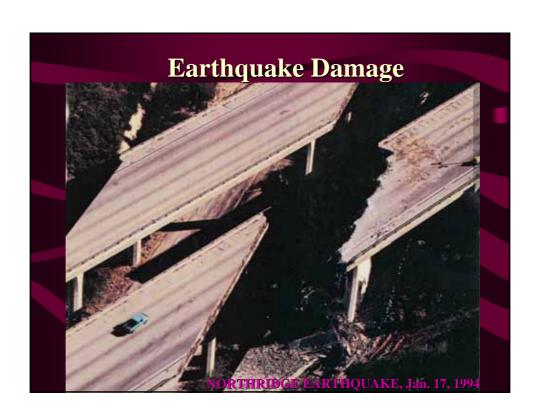
(p) Prevention of Windstorm

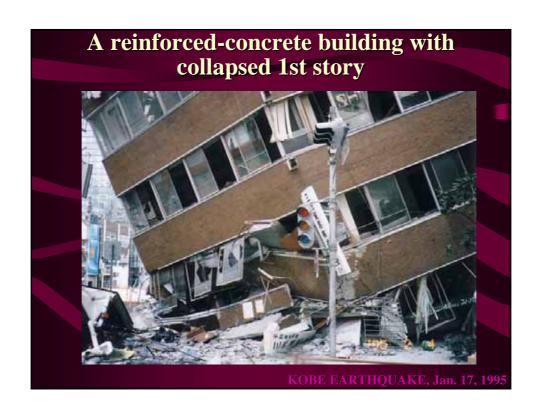
With the significant development of meteorological observation technology, natural disasters will be predicted one month or more before they occur. If a windstorm, which is the most dangerous natural disaster, is predicted, a cannon will be directed to the sky to change it to rain. Although earthquakes will not be restrained, houses and infrastructures will be designed and constructed to resist them and prevent damage.

Recent Strong Earthquakes in Japan

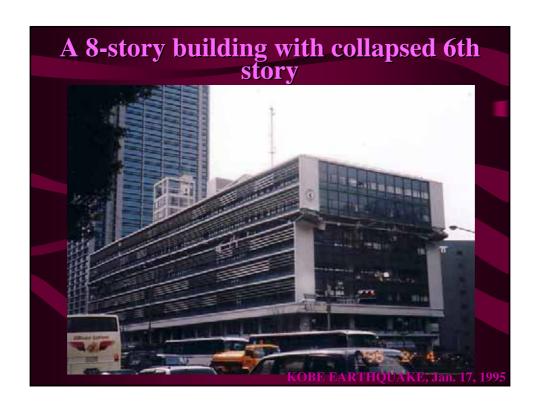
Earthquakes		Magnitude	Fatalities
Kanto	1923	7.9	1 4 2,0 0 0
Nankai	1946	8.0	1,432
Fukui	1948	7.1	3,769
Niigata	1964	7.5	2 6
Tokachi-Oki	1968	7.9	5 2
Miyagiken-Oki	1978	7.4	2 8
Nihonkai-Chubu	1983	7.7	1 0 4
Hokaido-Nanseiol	k i 1993	7.8	2 3 0
Kobe	1995	7.2	6,432



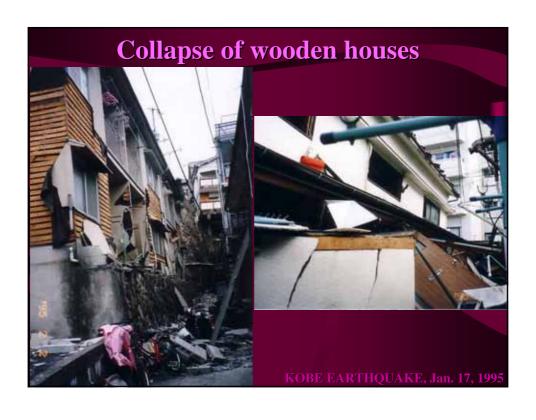












Kobe Earthquake January 17, 1995 'Magnitude 7.2 'Max. Ground Acceleration 817 cm/s² 'Fatalities 6,433 'Injured 35,000 'Damaged Buildings 512,800 (Engineered Buildings 10%) 'Burned Down Buildings 7,000 'Economic Loss 150 Billion USD (estimated)

Kobe Earthquake

Date of Construction of Damaged Buildings

·Before 1971 535 buildings

1971: Minor amendment to Building Standard Law of Japan

·1971 ~ 1980 218 buildings

1981: Major amendment to provisions for seismic design in BSL of Japan

·After 1981 103 buildings

Due to the investigation by one major general construction company

Seismic Force

- Seismic Force : **Inertial Force** Due to Acceleration of Ground Motion
- Similar to "Weight" (Gravity Force)

 Due to Gravitational Acceleration

 small or light weight buildings
- High-rise Buildings in Japan: designed to be light weight and flexible

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