Nuclear power: One person's view

By JANICE BROWN B. Ed., UNB

Dr. E. F. Schumacher, fa manufactures nuclear hard-necticut were (and are) mous economist and pro- ware for AECL, presented a receiving annual doses of motor of the Intermediate brief to the Standing Com- strontium-90 through milk states in his book, Small is New Brunswick Legislature the natural background Beautiful, that "of all the entitled "The Philosophy of levels. He found an excechanges introduced by man Energy Options." The argu- ssive infant mortality rate into the household of na- ments put forth in this essay after the start-up of the ture, large-scale nuclear fis- embody the propaganda of Millstone I nuclear plant sion is undoubtedly the the nuclear industry. At (Haddam Neck, Conn.) in most dangerous and pro- best it is weak and inhu- both Rhode Island and found. As a result, ionizing man, but it serves as a Connecticut, as compared radiation has become the starting point for my argu- to New Hampshire. In most serious agent of pollu- ments against nuclear potion of the environment and wer. the greatest threat to man's Craik's first misleading survival on earth." (p. 112) statement deals with uran-Since 1974, at the first ium mining. He states "the proposal of a nuclear power mining of uranium, like plant at Point Lepreau, New many other mining activi-Brunswick, the Maritime ties, is fairly hazardous but Energy Coalition has been probably less hazardous involved in various types of that the underground opposition to the plans of mining of coal." Words like NBEPC and Premier Hat- "fairly" and "probably" are field's Conservative govern- not acceptable for rationale ment. From a small group purposes when dealing with of concerned citizens, the the real dangers of uranium Coalition has expanded to mining and milling. When encompass some 20-odd uranium is taken through groups including church or- these processes, radioactive ganizations, fisherman's - radon gas and its daughters unions, anti-nuclear groups are emitted. At present, and related concerned citi- there are no controls on this zens organizations. The cancer-causing pollutant Maritime Energy Coalition and consequently radon is is part of the national perhaps more dangerous Canadian Coalition for Nuc- than plant waste since the lear Responsibility which latter is at least kept in has its center in Montreal. containment as best as is

health and environmental ioactive effluents" are emimpact of nuclear electrical mitted during the normal generation. It has been operation of a plant but shown over the years that Craik justifies this by stating the effects of radiation are "that they are easily meashazardous to the health of ured on a continuous baany living organism. Dr. sis." Simply because radia Helen Caldicott, native of tion can be measured does Australia, through her re- not mean it is not dansearch into the health ef- gerous. There is no thresfects of radiation, was hold below which biologiinstrumental in mobilizing cal damage does not occur. that government to halt French atmospheric testing in the Pacific and in con- professor of radiation vincing unions to stop uran- physics at the University of for Social Responsibility". through the entire fuel increase in infant deaths.

possible.

The primary concern of The brief does not deny the MEC has to do with the that small amounts of "rad-

Dr. Ernest J. Sternglass, ium mining. She now lives Pittsburg, has done numerin the United States and has ous tests around nuclear formed, with other concer- plants to determine the ned physicians, "Physicians effects of low-level radiation. He saw a connection The group educates physi- between the rise in infant cians and health care per- mortality rates in certain sonnel about the dangers of areas and the presence of nuclear radiation. Her pa- nuclear plants in the vicinper, "Medical Implications ity. The plants were reof Nuclear Power" follows leasing low-level radioactivthe dangers of this industry ity to cause a statistical chain from mining to waste He published the results in storage. (See related arti- a book called Low Level Radiation in 1971.

N.G. Craik, an engineer In the fall of 1977, he sealed shut, filled with rad-paring the probability of a with Canatom Inc., a com- found that children near pany which designs and two nuclear plants in Conphilosophy, mittee on Energy of the intake up to 241 per cent of 1975, overall cancer death

rates in Connecticut were

higher in three towns within 30 miles of Millstone I. Dr. Sterngalss's most recent survey was done in Pennsylvania. In a report entitled "Infant Mortality Changes Following the Three Mile Island Accident" he shows that the number of infant deaths rose by 32 per cent from February to July 1979. Breaking it down into smaller areas, a hospital in Pittsburgh (180m west) saw a 65 per cent increase and Harrisburg Hospital, with 35 per cent of the births in that area, saw an increase of 630 per cent! The rate for the entire United States for that period of time showed a decrease of 10 per cent.

Craik says of the Three Mile Island accident, "the actual release of radioactivity to the atmosphere during the TMI 'incident' (the nuclear industry avoids the word 'accident') was insignificant. It has been estimated that the 'incident' might cause perhaps one extra death due to cancer, in the large population of the area, a death which, if it did occur, would take place in many years to come."

Obviously, a foreign factor

was at work in Pennsyl-

vania.

It is this type of callous, irresponsible and inhuman attitude that is governing the nuclear industry in Canada! And it is this type of propaganda that is made public. He goes on to say that there was "plenty of time to consult various experts on how best to handle the hazard" at TMI. We now know through AEC reports that the plant came within 30 minutes of a fuel meltdown! They still are not sure of what went wrong or how to remedy it. The containment building is still

ioactive water and gases nuclear hazard occuring which must be released in with the probability of a car small quantities to the at- accident or a plane crash, mosphere even now. The are that the latter hazards still exists!

could be killed; 100,000 \$17 billion (1965 dollars) damage could be done; 150,000 square miles of land could be contaminat-

man must go on living." The pockets of nuclear personel evidence so far shows the as the nuclear industry nuclear energy path, con-fades in importance all over trary to this statement, has the world. The citizens of caused death and sickness New Brunswick and surwithout exeption.

One quotation from Craik's brief epitomizes the elitist attitudes of the name of profit and prestige. nuclear industry:

possibility of a meltdown are free choice made by the individual, whereas the individual has not made a The Brookhaven Report personal choice to live in a (WASH-740) commissioned nuclear power environment. by the AEC in 1965 found But what personal choices such shocking statistics do we really have in life? concerning a fuel meltdown We did not choose to be that the AEC refused to born in North America or to issue the report and even be born at all. When we denied its existence. Final- switch on a light, we do not ly, in 1973 a Chicago lawyer make a personal choice to threatened to sue the AEC use hydroelectric power under the Freedom of instead of nuclear power. Information Act and made We make a choice to enjoy the report public. The im- the benefits of technology pact is staggering. The est- and to put our faith in those imates are based on a engineers who have develworst-case accident, that is, oped and applied this techthe radioactivity released nology in a responsible through meltdown of half way. The opponents of the fuel bundles, in a nuclear power would like to 200MW nuclear plant with- avoid these commitments in 30 miles of a major city. and beleive that they have The results: 45,000 people the freedom to make other personal choices such as people could be injured and the so-called "soft" techrisk cancer in later years; ologies or benign sources of power, of which solar power is one currently popular suggested alternative. Although the odds are against us, I would like to think and believe that I Craik asks: "Why should have a choice as to the any design of reactor and its kind of environment I want safety systems be consider- to live in. And, I believe my ed acceptable when the choice of a non-nuclear probability of failure can- future is justified on all not be mathematically accounts. It is not necessary expressed as zero?" And he, in New Brunswick - it is answers: "The reason is that simply serving to line the

§An argument against com- (Continued on p. 13)

rounding areas and the

environment without which

we cannot survive are being

laid out on the line in the

EXAMINATION BLUES BASKETS

The Capital Y's Men's Club will be delivering Blues Baskets on March 29, 1980

beginning at 9:30 am

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