

Ottawa, October 1975 Bulletin number 6

Habitat

United Nations Conference on Human Settlements Vancouver 1976

Strong views aired at symposia and public meetings

As the Bulletin went to press, one third of the 30 public meetings and symposia being held across Canada as part of the public participation process for Habitat had already laken place,

Twenty more meetings still lay ahead until the end of November before the Canadian National Committee and the Canadian Participation Secretariat will assess these encounters with Canadiana.

The lirst four sessions were held within four days, three of them in Northwestern Canada, requiring three separate teams from the Canadian Participation Secretariat to wend their way North, equipped for snow but encountering only balmy weather. The weather matched the turnouts At Inuvik, 120 miles inside the Arctic Circle and the first and most northerly of the human settlements to be visited, native people were in predominance

The members of the Canadian National Committee had an interesting dialogue with representatives of the native people who spoke of the difficulty of maintaining their unique litestyles in the face of modern civilization They claimed that inuvik. a community of 4,000 situated some 1.200 miles northwest of Edmonion, was not planned with nalive people in mind despite claims to the contrary by the tederal government. The government came in for some more knocks at the public meeting when it was accused of giving



money for ald to developing countries but not doing enough tor its native people.

At the Winnipeg symposium, the first of the 14 to be held. Calgary Mayor Rod Sylkes made the front pages of papers across the Prairies when he said that party politics were responsible for the scuttling of urban reform. The theme of the

J. Ken McKiniton, Minister et Local Government for the Yukon, and Max Bacon. Toronte planner and keynole speaker, laik with participants during the Whilehorse symposium.

two-day symposium was "Factors affecting rural-urban migration" and Mayor Sykes said the various political parties were unwilling to

get together to present a common, workable program. The sym-Posium's main conclusion was the see page 2

J.W. MacNelll appointed Commissioner-General of Habitat for Canada

Jim MacNelll, Secretary of the Ministry of State for Urban Affairs, has been appointed Canadian Commissioner-General of Habitat with the rank of Ambassador Extraordinary and Plenipotentiary. He will head a new Canadian Habitat Secretariat which is to include the present Canadian Participation Secretariat from MSUA and Host Secretariat from External Affairs.

In announcing the spoolntment, the Prime Minister stated: "The appointment of Jim MacNeill as Commissioner-General is intended to provide the leadership required to ensure that, as Host Country and as an active participant in the Conterence, Canada's role will be fully effective."

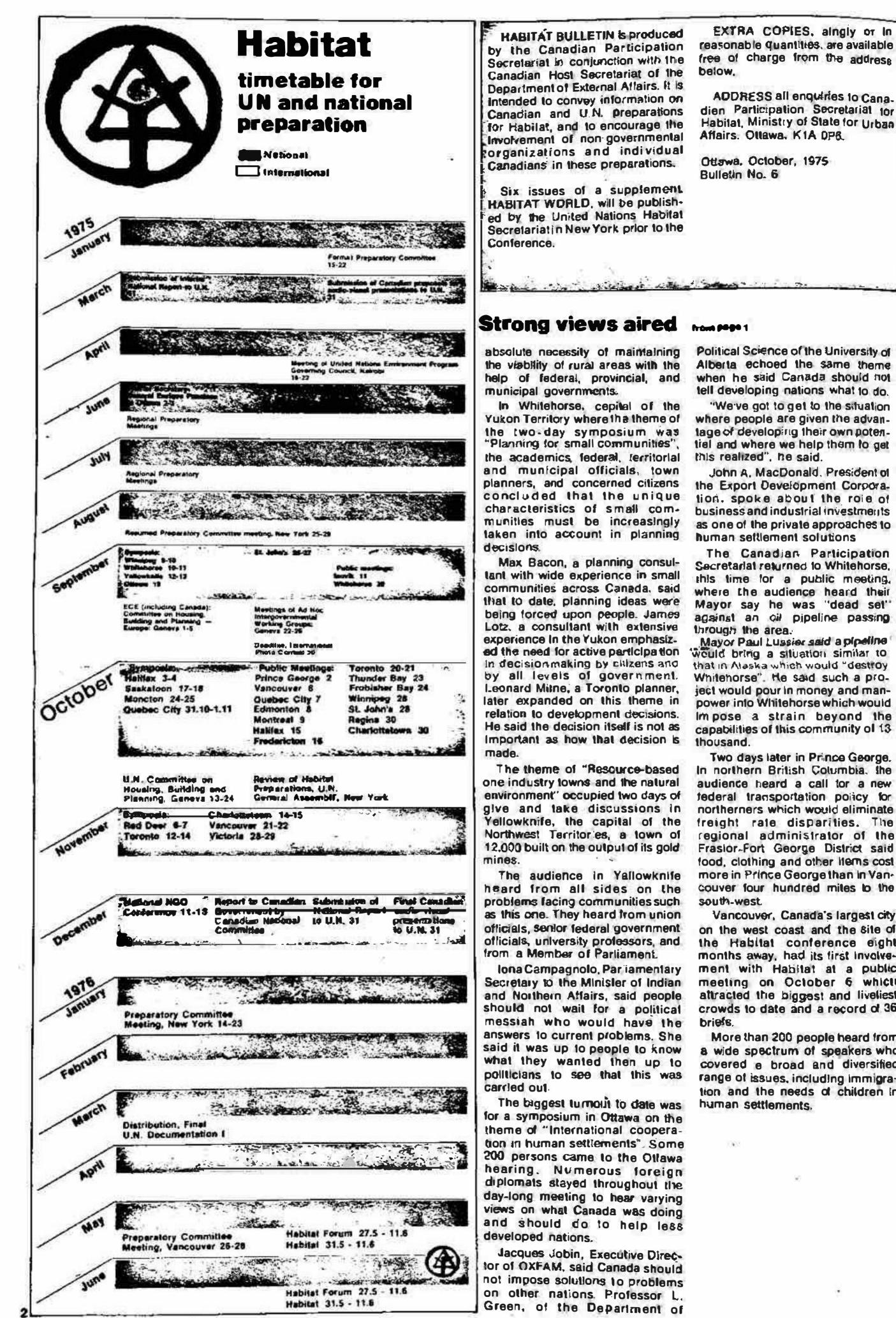
The Ministry of State for Urban Aflairs has had the lead responsibility for Canada's participation in the Conference. The Department of External Aflairs has responsibility for Host Country arrangements. Both departments will continue to provide full support to the new Commissioner-General.

Mr. MacNell will be responsible for providing overall direction of Canadian planning for the Conference. He will report to the Honourable Barney Danson, Minister of State for Urban Aflairs. He will divide his time between offices in Vancouver and Ottawa and ha is expected to underlake extensive traveiling abroad in the coming months.

"The appointment of a Commissioner-General is a clear demonstration of the government's determination to do what it can and must do to ensure the success of the Conference and pull it off in a manner that will be a credit to Canada, both internationally and domestically," said the new Commissioner-General.

Interviewed on his first day as

Commissioner-Generel, Mr. MacNeill said that he looks forward to the next nine months with optimism and enthusiasm. "Habitat will be one of the most significant United Nationa Confarences of recent times," he said, "The activities started over the past two years in the United Nations, in over one hundred countries and here In Canada are now beginning to converge. As we enter the home stretch towards Habitat, we have the ingredients of a good build-up to the Conference, an exciting and productive two weeks in Vancouver, and a wide range of important post-Habilat activities."



.

Two days later in Prince George. In northern British Columbia. the audience heard a call tor a new tederal transportation policy for northerners which would eliminate freight rate disparities. The regional administrator of the Fraslor-Fort George District said tood, clothing and other liems cost more in Prince George than in Vancouver four hundred mites to the

Vancouver, Canada's largest city on the west coast and the site of the Habitat conference eight months away, had its first involvement with Habitat at a public meeting on October 6 which attracted the biggest and liveliest crowds to date and a record of 36

More than 200 people heard from a wide spectrum of speakers who covered e broad and diversified range of issues, including immigration and the needs of children in

Jericho Beach: a colourful site for Habitat Forum

Through this fail and winter a crew of Vancouverites will be working on Jericho Beach, site of the Habital Forum - the nongovernmental activities for Habitat. Most will be young people, welfare recipients or disabled workers. They will be paid under a specially created Joint Federal/Provincial scheme, which has been described by one Manpower official as "the most Imaginative program I have ever seen." The site, originally a meeting place for Indian Iribes, is considered the most creative approach to an NGO galhering ever developed. The 17-acre former Canadian Armed Forces seaplane base has been made available to the organizers of Habitat Forum by the British Columbia Government and the City of Vancouver, whose Parks and Recreation Board will develop Jericho Beacli as a public park a F ter the Conference. A series of largeaircraft hangars on the site will be converted into conference rooms (the largest seating several thousand people). display areas, experimental workshops, Iheatres, restaurants and social areas.

.

There will also, be outdoor exhibition areas where experimental structures, innovative housing, alternative energy generators, urban food producing units and other full-scale "demonstration projects" will be erected before and during the conference.

This is the first time at any UN conference thatsuch a broad rarige of tacitittes will be provided for nongovernmental organizations and individuals. It means that virtually any kind of activity which relates to human settlements can be accommodated.

However, because of the wide interest that has been shown in Habitat Forum from many querters, those wishing to participate in program activities (rather than just coming as observers) are urged to contact Habitat Forum's Vancouver office, PO Box 48360, Bentall Centre, as early as possible. Thia office can also put you in touch with others who may be planning similar activities and with whom you may want to co-operate. All the organization regulred to achieve this imaginative plan is provided by a group of representatives of non-governmental organizations, professionals and Interested citizens in Vancouver. who formed a special body with the rather cumbersome name of the Association In Canada Serving Organizations for Human Settlements (ACSOH) ACSOH was established as a response to the need of many NGO's around the world wishing to participate in Habitat to have a central co-ordinating office. Its responsibility is primarily a host function, very similar to that provided for the United Nations official conference by the Canadian Host Secretariat. In providing for program activities, ACSOH maintains liaison with the International NGO Committee for Habitat.

n. 1

13

The whole site will have a traditional British Columbia theme with all the colour and atmosphere of a country fair, complete with beer garden, salmon barbecue, bars and collee houses. The emphasis will be on people rather than exotic technology or machines. The buildings will be enlivened with such things as enormous wall panel paintings in tradional west coast indian designs and colourful fabric hangings.

Vancouver taletits featured

The latter will be both decorative and utilitarian — serving as acoustic treatment for the cavernous interiors of some of the hangars. All these will be designed and produced by local craftsmen,

The new construction will be largely handcrafted, out of local materials. For example, covered walks to link the buildings in case of rain, seating and stages will all be built in much the same manner as old-time railway trestles. These structures will be built from logs salvaged from local beaches. A sawmill will be set up on the site to process some of the logs to make the covered alleys and convert some into roofing shakes.

Unmarketable lengths of sawn iumber donated by a local sawmill will also be used in the form of wood chips covering the entire grounds.

Transportation

The site will be linked to downtown Vancouver, where the UN sessions will take place, by shuttle bus service (riding time about 15 minutes).

A similar service will link Jerlcho Beach to the University of British Columbla (10 minutes ride), where other meeting facilities and living accommodation will be provided. Also contemplated is a link by sea transport.

While the international NGO Committee for Habitat has overall responsibility for developing a core non-governmental program and for ico-ordinating all activities for Habitat Forum, anyone — Individual or organization — may participate. More than fifty groups and Individuals have Indicated their Intention to do so.

Heritage conservation is economically sound

The Habitat Bulletin provides a forum for articles by people with stimulating views on human settlements issues. This time our contributor is George Galt, a freelance writer and senior research officer with Heritage Canada, a national loundation promoting the conservation of heritage buildings and the natural landscape

Older buildings Imbue their neighbourhoods with a sense of history. Many are aesthetically appealing. They create textured streetscapas and offer unusual configurations of interior space. Thay represent the spectrum of solutions to the basic problem of shelter and the more sophisticated problems of design. For these reasons, runs the longstanding conservationist argument, we should preserve our more worthy heritage structures for present and future enjoyment.

Less current is the complementary argument that the recycling of heritage buildings can be profitable, not only to the individual entrepreneur but to the community at large.

That renovation and restoration are viable alternatives to demolition and new construction has been proven time and again by Individual developers. A national spot survey undertaken by Heritage Canada in 1974 documented the economic success of several heritage recyoling projects. Helurn on equity in these developments. for example, ranged from 14% to 35% rendering them strongly competitiva with investment in new construction. Equally Important is the viability of recycling from the standpoint of the municipal treasury. It has often been argued by the proponents of new development that new highrise construction solidifies the city's tax base: a prosperous growing municipality, they say, cannot aflord to let its real estate languish in antique torms.

But several studies In recent years have proven these voices wrong, if not everywhere, at least In a handful of significant cases. An exhaustive report compiled by the San Francisco Bay Guardian in 1971 showed that while the city's central high-rise district contributed \$62.9 million in tax revenues, it drew on the treasury tor \$67,7 million worth of services, a loss to the municipality of nearly \$5 million. Another 1971 study, the Price Waterhouse cost-benefit report on land use in the Borough of York, Onlario found that highrise construction provided no significant tax advantage over low rise. And in Hallfax last year, conservationist Elizabeth Pacey completed a cost-benefit analysis of the city's 1973 new development which showed that new assessment had burdened the average ratepeyer with an extra seven dollars in property taxes, more an economic bane than a boon.

These studies destroy the cliché that demolillon and new construction provide a gold rimmed formula for subsidization of the residential ratepayer. While it is still true that some decrepit buildings represent an irretrievable tax losa, it can no longer be assumed that, for the sake of the municipal balance sheet, all eging real estate should be retired.

This is further demonstrated by tax revenues from conservation areas such as Vancouver's Gastown and Philadelphia's Society Hill reighbourhood. Revenues from the most extensively renovated sector in Gastown rose 81% In the six years during which the work was completed. In Society Hill, the increase has surpassed 100%. More difficult to pinpoint, but no less real are the benefits accruing to the tourist industry from conservation. Studies consistently show that sightseeing is one of the two major purposes for travel. Add to this the fact that any historic site or building is a sightseer's magnet, and the impact of conservation is obvious.

The most recent Canadian Travel Survey conducted in 1971 found that 29% of Canadian tourist spending is attributable to tourists whose main activity is visiting historical and cultural sites. No other category in the study comes close to this figure. Even fishing, the next most popular activity, accounted for only 15.2% of tourist dollars.

Statistics abound pointing to the enrichment of tourism in areas where conservation has been emphasized. The most salient example is New Orleans, where the historic quarter generates over \$200 million in tourist revenues an nually. In Savannah, the income from tourism quadrupled in just six years of restoration work,

All this is not to say that anlique structures are just another economic resource which ought to be mined We value them for much more than their economic potential. But if we ere to preserve tha full splendour of the Canadian heritage, we must look beyond our museums, excellent though they may be, to the dynamics of the markelplace. It is here that most of our heritage assets will stand or fell. We must, as many heritage developers have done, find new uses for old buildings, and those uses must be economically sound.

That heritage conservation can pay for leelf has been shown many times over. What remains is to convey this information to our mayors and councils, to our travel industry and to our real estate development industry. Persuading local



The Canadian lecture four of Barbara Ward. originally scheduled for November, will take place from March 29 to April 28, 1976, beginning in Ottawa, then Quebec City, Toronto, Winnipeg, Calgary, Victoria, Montreal and Halifax. Details will appear in future issues of the Bullelin,

An atlas-In-a-glance map of the Georgia Strait Urban Region (Vancouver and Victoria) is now available. It provides a wealth of information on population density. land use patterns, transportation, and other relevant topics A similar map has been published for the Windsor-Quebec AxIs and both have been produced jointly by the federal Department of the Environment and the Ministry of State Ior Urban Aflairs. These maps may be obtained in English or French versions through the Canada Map Office Department of Energy. Mines and Resources, 615 Booth Street. Otlawa K1A 0E9. Roter to Map ELD-4 for the Georgia Strait region and Map ELD-3 tor the Windsor Quebec Axis. Each map costs \$3.00,



governments and the business community of the economic strengths of recycling is essential if our heritage is to be preserved.

The Vancouver Billboard Program Is going ahead with a good response from the Vancouver business community. 300 billboards will be reserved for a one-month period prior to and during Habitat. The boards will display the winning entries to a series of contests on human settlements themes, open to students, amateur and commercial artists. Details will follow.

300 NGO representatives to meet in December

Over three hundred representalives of non-governmental organizetions will gather in Ottewa for a unique conference on human aettlements December 11 - 13. It will be an opportunity for dialogue among NGOs as well as between them and those in the government who are preparing for the Habitat conference in Vancouver next June, In addition it will contribute to the development of a Canadian National Policy on urban growth and land use. Co-hosts for the conference will be the Canadian National Committee (C.N.C.) and the Canadian NGO Patticipation Group.

-

The opening session on Thursday evening is designed to hold those organizations now ectively preparing for Hebital accountable for their progress. People such as Senator Sidney L. Buckwold, Chairman of the C.N.C., Dr. C.t. Jackson of the Canadian Participation Secretarial, Mr Terry Tanner of the Association in Canada Serving Organizations for Human Settlements (ACSOH), and Mr. Geoffrey Grenville-Wood of the Canadian NGO Participation Group will be on the platform.

Land use will most likely be one of the key issues that will occupy the conference workshop sessions Friday. Public housing programs for the handicapped, energysaving design, participationoriented community organization, and an emphasis on human values are Canadian NGO concerns. International initiatives for solving human settlements problems are also important interests.

A three-man task force is now working to canvass NGOs and pinpoint the key questions facing the conference. Its members are Dr. Michel Chevalier of the University of Montreal, Mr. Jemes Gander of the Economic Council of Canada, and Dr. Clair Woodbury, Coordinator of the Canadian NGO Participation Group. Dr. Chevaller seid in an Interview, "It is vital for the conference to get at the jugular issues, and we need to look al real situations, the land bank in Saskatoon and Ontario's land laxation program, for example",

The recommendations of the conference will be published to assist the Canadian government in making its presentation to the Habilat Conference, and to serve as a reference for Canadian NGOswho will have their eye on the government's performance at Vancouver

Steering our course through the greatest convulsions in history

THE HOME OF MAN

A Book by Barbara Ward to be published in February 1976.

The Home of Men by Barbara Ward (Lady Jackson) will be published early in 1976. The wellknown environmentalist and author elaborated some of the metor human settlements issues in many of her previous publications. The Bulletin is now pleased to present the prologue to her forthcoming book

There are two reasons why it is exceedingly difficult to get a coherent grip on the issue of the human habitat - the settlement where all the world's peoples, save for dwindling groups of nomads, are born, live out their lives and go to their death.

The first reason is that this habitat includes everything. A Roman philosopher once said: nothing human is alien to me". How much more true is this of the inascepable context within which the whole of existence is carried out. What con we leave out when we are talking of the complete life cycle of mankind? Yet to try to grasp everything is to risk grasping nothing. The entirety of the human condition certainly escapes the stalistician. It probably escapes the poet So whatever is writign about our habitat must submit to being Incomplete. Perhaps, as a result, 11 will leave out vital ctues to coherence and understanding. The second reason is even more daunting. At no time in human history has the man-made environment of life been in such a state of convulsed and complete crisis. This is not to suggest that great upheavals have not repeatedly overlaken humanily. Great civilizations have perished. Empires have fallen like skittles in a bowling alley. On the very threshold of the so called Age of Progress, in the seventeenth century, a perturbed observer like Sir Thomas Browne could observe: "The world's great mutations are ended". Throughout history, in the dark attermath of plague or war, folk songs and bailads are full of the loss and collapse of human hopes. Compare this Elizabethan verse:



with the lament made for the destruction of man's eerliest city, Ur, about the year 2000 B.C.:

Verily all my birds and winged creatures have flown away -'Afas ! for my city' I will say.

Then the great accelerations began - in knowledge. in power, in resources and technology, in mobility, in conquest. The first thousand million mark for humanity was passed about 1630. The next thousand million took only 6 hundred years, the next only thirty. Tod ay, with just over four thousand million beings on the planet the added thousand million has taken only fitteen years. This rate of growth means that in the first dacade of the naxt century, a whole new world, equivalent in numbers to this one, will be piled on top of the present level of population. Further ahead, the predictiona become even mora fantastic, in lact, unchecked, they could be adding well over 250 million people a year by 2034, the bicentenary of the death of Thomas Mailhus - the first men to postulate the theorem that population would always grow to exhaust the available food supplies. But such predictions belong to the world of dream - or rather of nightmare. Before such increases could take place, the old destroyers, hunger, war, plague, "death on a pale horse", would have wiped out the surplus. What we are concerned with today is that Imminent doubling of our planetary numbers in less than forty years

Scale is not the end of the cataclysmic nature of modern change. Once again. the figures are known and repetition can stale their Impact. Yet we have to make the effort of imagination needed to realize that after some lifteen thousand years of organized human existence in recognizable settlements, the whole character of this habitat is being radically transformad in less than a hundred years, if we take "urban" as the ad-Jective to qualify settlements of more than 20,000 inhabitants, throughout most of human history at least ninety per cent of the people have lived not in cities but in hamlats, villages or at most in small towns. At the time of the American Revolution, for instance, this was the percentage of Americans living in centres of no more than 2,500.

Now compare with this the sudden exptosive acceleration of change in the twentleth century. Alter a hundred years or so of industrialization, the number of people in urban areas at the and of the nineteenth century was about 250 million in a world population of 1650 million - the urban population accounting for fifteen per cent of the world total, a little higher than the earlier urban figure of ten per cent but still leaving the world's rural peoples in overwheiming predominance. And now in just a century, this millenial relationship is being overthrown with almost inconceivable speed. By 1960, urban populations had grown to a thousand million in a world of three thousand million - only a two to one rural ratio. Today, urban peoples are racing towards the 1500 million mark out of a total world population of four thousand miltion. Ten years from now, they will pass the two thousend million level. By the year 2000, there will actually be more urban dwellers than rural people in a world populetion which will have risen to between six and seven thousand million. We also have to realize what an astonishingly new phenomenon is the city of a million people. Probably neither Rome nor Byzanflum reached that peak even at their greatest extent. True, If Marco Poio's impressions can be trusted, Kinsal in China - on the site of today's Hankow - may have had 3 million Inhabitants in the 13th Century and Edo - as Tokyo was first called - seems to have reached a million by the 18th Century. But the concept of a "big city" did not go much beyond 100,000 until the beginnings of the 19th Century - it is almost comical to recall that at the time of the American Revolution, only two cities, Boston and Philadelphia, had even reached 50,000.

15

"Brightness falls from the air Queens have died young end fair" My daughters and my sons have been carried off

'Alas I for my men' I will say, O my city which exists no longer, my city attacked without cause, O my city attacked and destroyed!

Few lives, indeed, have escaped all echo of the mourning cry in Ecclesiastes: "Man is born to trouble as the spark flyeth upwarda".

But if the intensity of crisia is not new, sheer scale undoubtedly is. The figures are becoming so well known that it is hard to remind oursalves how phenomenal they are. Yet they must be repeated. On any recognizable definition of what is a human being, it took at least half a million years for the first 100 million people to appear on the face of the Earth - at about the year 1000 B.C. in the wake of Improvements in agriculture and increase in food supplies brought about first by Neollthic man and then by the great velley civiscations - in Egypl and Mesopotamia, In North India and China, Farming, handicraits and commerce contined to develop wregularly but expansively for the next 2,500 years. By about 1500 A.D., there were perhaps 500 million human beinge on Earth.

a dimly perceived but passionately longed for vision

Then, with the spread of Industrialization and of world wide trade, the city of a million begins to race aheed. London reached the mark in the 1820s. By 1900 there were eleven "million-cities", aix of them in Europe, still the Imperial and commercial dominant of the world. Still the jump from two to eleven in the 19th Century has been followed by an infinitely more formidable acceleration in our own time. By 1950, there were 75 "million-cities", 51 of them in developed regions, 24 in the developing world. Today, the developing nations have pulted ahead. They contain 101 such cities, out of a world total of 191. By 1985, the millioncity will have jumped from 11 to 273 in less than e century - and 147 of them will ba in the less developed lands.

٠

And even this vast multiplication does not fully measure the contemporary upheaval in human settements. The million-city begins to explode into the ten-million city. There were two of them in 1950 -New York and London. By 1970 there were four. But by 1985, there will be at least 17 of these gigantic agglomerations, ten of them in developing areas - with Mexico City, at nearly 18 million, only a step behind New York. And al the head of the list Edo's successor, Tokyo, will recover its earlier primacy with the dubious distinction of bringing 25 million people together in a single conurbation. We may, of course, question whether some of the more surrealist predictions - for instance, a Calcutta of over 30 millions - will ever be reached. Various degrees of urban collapse may well have intervened. But the projections are valuable as indicators of the sheer avalench-like scale with which the world's peoples are increasing, heaving themselves out of the millennial framework of viltage and small town and descending in deiuges of mixed hope and despair on the world's larger settlements. To seek analogies for change on this scale, one has the obscure leeling that only the distant billenia of geological time can provide any adequate concept of the scale of upheaval. The Indian subcontinent detaching itself from Antarctics and sweeping across the

•

Indian Ocean to its violent collision with Asia's land mass along the Himalayas, the sea pouring in to change the Cerribean or the South Chine Seas into a chain of Islands, the grinding of continental plates against each other, heaving up the Andes and leaving volcanic chains where Asia and Europe collide these ere eurely the images that are appropriate to the scale of the 20th Century's urban deluge. We are in the full tide of this great sweep. Its final consequences lie ahead. But already the ground shakes We should hear if we were listening, the mutter of the approaching storm. And the upheaval is not simply a physical upheaval - the largest increase and "wandering of the peoples" In human history. It is taking place within two wider but equally unstable contexts, one social, the other ecological. They, too, are unique in the experience of mankind.

The social context is the deepening conquest of the human imagination by a dimly perceived but passionately longed for vision of equality and dignity tor every human being. This dream has, no doubt, many roota - archetypal memories of the unself-conscious equality of tribel society, the mittenial Neotithic experience of ahared tasks and modest returns in early agriculture, passionate revulsion against arrogance and greed in the wake of man's first experiments in "high" divilization - in Babylon or Molienjo-Daro, In Ch'Ang An or Rome. But for modern society, the Biblical strain a unmistakable. The great Hebrew propheta - from Iselah to Karl Marx - have called on man "to undo the thongs of the yoke, to let the enalaved go free . . . sharing your bread with the hungry and bringing the homeless into your house". * The rights of the downtrodden, the duties of the fortunate, the value and dignity of the poor, the harsh condemnation of irresponsible wealth, these are judgements and energies inherited from Western man's Biblical tradition - inherited even when betrayed - end in our own day, this tradition either colours the imegination, troubles the conscience or at least parturbs the complacency of all mankind, And, as our world prepares to add another world equal in numbers to itself in no more than four decades, the cry for greater justice and dignity for ell these thousands of millions will not be stilled. On the contrary, It will be raised all the more insistenily as numbers and pressures increase.

But It is one thing to underline the fact that people's growing sense of their dignity and equality both individually and collectively is a near-universal phenomenon, an "inner limit" to the development of planetary society which can be transgressed only at the risk of the severest social disorder and breakdown. It is quite another to achieve even minimum agreement upon the content of this new perception of the human condition.

As a rough first definition we can start by recognizing that any valid concept of dignity and equelity Includes a number of non-meterial "goods" — responsibility, security and participation, the free exchange of thought and experience, a degree of human respect that is independent of monelary rewards or bureaucratic hierarchies, and e realization that this respect is lacking where rewards and hierarchles are too restrictive or too skewed. All these goods of culture, of men's mind and spirit, need not be costly in terms of materiel resources, indeed, they belong to the sphere of life where growth is truly exponential - in knowledge, in beauty, in neighbourliness and human concern,

But they require physical underpinning. And here the pressures

It is all too easy to see that even on this exceedingly modest stendard, the task of achieving minimum conditions of human dignity for between six and seven thousand million people by the year 2000 constitutes a tremendous physical task, raises wholly new questions about the use, abuse and exhaustion of resources and begins, for the first time in human history, to hint at risks to the integrity of the entire life support systems of the planets biosphere. These, if you like, are the "outer limits" beyond which the human race cannot march -- or stray without risking its own survival.

To take these high abstractions down to a more homely level, we can note that in the crucial area of food, the average North American eats some 1900 pounds of grain a year, all but 150 pounds of it in high protein food such as the products of cattle and poultry. It is perfectly possible that, for a largely sedentary people, this diet is as dangerously over-generous as the 400 pounds of grain eaten by the South Asian is manifestly too litile. A blological norm may lie somewhere belween the two — an Intake of 1000. to 1200 pourses of grain and grain equivalents, the level general in North America in the 1950s end in parts of Europe today, neither region et either lime betraying, it must be admitted, any severe signs of general undernourishment. But to bring up to this level two thousand million or so people in developing lands who are now below a decent norm and to ensure that the next two thousand million born there achieve It reguires little stiort of a new agricultural revolution with vast increases in supply - for fertilizer, for improved seed, for farm machinery - and equally vast impacts on the world's reserves of soil and water, both in using and possibly in polluting them. Nor will the fertilizer and machinery be produced or used without a corresponding leap forward in the demand for energy Once again, an energy "norm" per person is a difficult concept. In spite of some of the follies of prestigious air conditioriing. temperate climates do seem, of their nature, to require less lavish energy-use for man's domestic purposes. Only a really determined rejection of the ideals of thrifi can explain why a citizen of the United States uses more than twice as much energy as an equality pros perous — and chilly — citizen of Sweden. But again there must be some half way house between extravagance and the direct need. Between 1900 and 1970 - another

· leaten Chapter 58 revous 6.7

bring us to a further context of great uncertainty and risk. When we try to establish even the minimum physical conditions of a worthy human existence, we confront the widest possible spectrum of uncertainty. For one thing, there are inescapable differences of climate and culture — Arctic housing tails us nothing about Tropical atandards, or Mediterranean radiance about the midnight sun. Diet, uses of energy, petterna of worship, work and play partly and rightly reflect a vast and precious variety of cultures and social purposes But we can perhaps accept an Irreducible minimum — another "Inner limit", this time the limit of physical wellbeing, which human society transgresses at its peril and which must include food, energy, sheller and the training and work required to secure them.

ŋ

of equality and dignity for every human being



Tokyo, one of the world's largest cities, will have 25 million people by 1985. more than Canada's total population today.

ot those glant accelerations — — the need for chefter. In conwould energy consumption rose

structing houses, in using them, in

Of course, they are not the only aymbols. The degradations con-

Add to this trend of inadequate lood, energy and sheller the back

from about 650 million metric tons of coal equivalent to 6500 mitlion metric tons — more than a ten-fold increase and the bulk of It, from 2560 up to 6600 million, occurred in the halcyon Fittles and Sixties with oil coming out of the sands at a dollar a barrel. Rising costs may, perhaps, check the rate of acceleration, but estimates as high as 21,800 million tons of consumption for the year 2000 have been made In United Nations' surveys.

We should notice that these exrapolations have been based on present use. Yet today the twothirds of the world's peoples who live in developing countries consume fifteen times less energy, on the average, than do the citizens of developed societies. Given the vast attractiveness of aubstituting mechanical and muscular energy - the man on the tractor for the man with the hoe, not to speak of the driver atone in the four seater car — future energy use may be grossly under-estimated unless It essumes at least a doubling and trebling of demand among the present poor. Add that to existing extrapolations and the ilmit of safe exploitation may be fixed not by the availability, cost or risk of new energy sources but by the "outer limits" of thermel pollution on a planetary scale.

Nor should we forget the part played by energy in a further dimension of basic physical need

creating in them the warmth for cold winters, the coolness for torrid aummers and all the services of the household, from cooking to piped water to sewage, which turn a mere building into a treasured home. energy, usually in its cleanest and apparently most trouble-free form - electricity - has come to dominate the houses of the developed world. In fact, the 4,740 thousand sub-slandard houses of the United States are largely defined by the absence of services water closets, baths, heating appliances - all of which require energy to provide them. The enormous gap between energy use in developed and developing countries is in part explained by the degree to which such services are simply unavailable to the poorest groupa. Nearly half the municipalities of Latin America have neither sewage systema nor piped water. The proportion in the Indian sub-continent and parts of Africa is higher still. The open drain down the main street, the contaminated well at the corner crossing - these can be ugly symbols of man's habitat in energy-poor sociaties.

tinue downwards in degrees of squalor - from a ternily to each room (the figure for 80 percent of the people in Calcutta), to four families to a room, to tar paper shacks, to shift-steeping in literally makeshift beds, to no rooms or roots at all and thousands sleeping on the pavement. Various U.N. surveys out the number of houses that need to be built to keep up with growing numbers and repair the worst evils of the past at over 47 million units every year. The figure can only be an estimate and tells us not too much about tha resources required. Rural housing in reasonable climates makes far less claim on materials or energy than the dense tenements of great urban conglomerations. But if the figures are not absolutely precise, they are precise enough to suggest that perhaps a guarter of mankind has barely attained the dignity of a roof and there are 70 million more humans to accommodate every year.

needs of training in a world where Illiteracy is actually increasing and of work in areas where half the labour force may be underemployed or completely without employment for part of every year and we can see how near the human race is coming to the point at which the "Inner limit" of human dignity is finally transgressed and the most rapidly eroding of all resources - the patience of the poor - will compound the vast material strains entailed in acting in time, on an adequate scale and without irreversible environmental disruption, to meet humanity's basic needs, Mankind is in fact engaged in a kind of race for survival between the inner and outer boundaries of sociel pressure and physical constraint while the doubling of the world's peoples and emergence of a half-urban world lakes place in only four decades.

These overlapping contexts of violent demographic, social and environmental change all meet, one could say, collide in human settlements. These places must carry the vast weight of the migrations - overcrowding at the terminus, decay and blight in the desetted areas. They are also the meeting place of all the aspirations and demands of mankind's enlarged sense of its human dignity. In village or town, in suburb or alum, men and women experience in their daily environment the fulfilment or frustration of all the drives

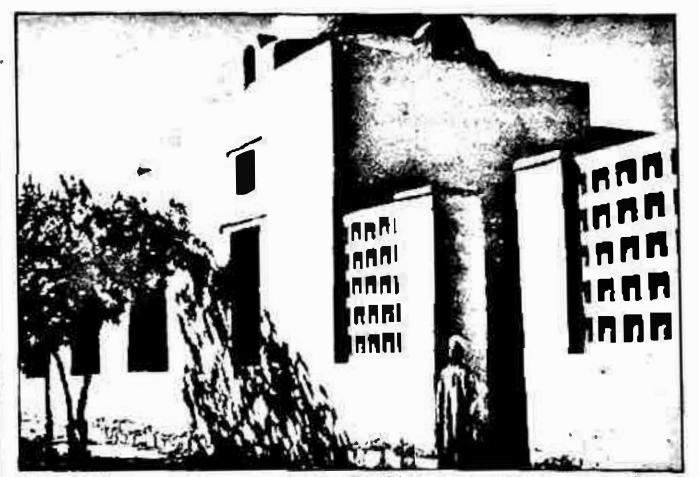
and demands of aspiring modernity. Above all, it is in settlementa that the physical consequences of the vast upheavals will reach their climax. Millions upon millions crowded in the exploding cities, all too often without the minimal provisions for urban cleanliness. offer man's most concentrated insuit to the support systems of air, water and soil upon whose integrity the survival of life itself depends. If It seems difficult, almost by definition, to grasp the full scale and implications of the problems raised by the human habitat, it seems virtually impossible to do so If they are caught in these changing contexts, this whirling kaleldescope of interlocking and contradictory forces, needs, aspirations end risks.

But, remerkably enough, the vaat and uncertain contexts of explosive growth, explosive aspirations and potential biophysical limits do not

compound the problem of devising some aense of meaning and strategy in our approach to human settlements. On the contrary, the three contexts, rightly placed and ludged, can provide clues for analysis and priorities for action. The demographic flood is poten-Ifally so damaging precisely because It is a flood - in other words, an unmanaged, unintended, disorganized rush, pell mell, into the new urban order. But what this suggests is not further confusion but the opposite Intention - a fully human one - to grasp the meaning of the phenomenon and produce urban eettlemonts not by chance but by some measure of design. The first pointer is thus away from building the city by chance and over to the city built for human purposes.

Then the other two contexts fall better into place. For the first purpose of any settlement must be to end inhuman deprivation. There are a great many other needs, no doubt. And some of the aspirations of more fortunate citizens may, consciously or unconsciously, contributa to degradation elsewhere. But this does not change the priority. Before the problem of, say, the highly rewarded but often culturally deprived life-styles of wealthy single-class suburbs is dealt with, tamilies in settlements must be able to setisfy the minimum needs - food, energy, sacure shelter and work. Often there are no contradictions. Nothing, for instance, so reduced the death rate of the 19th Century poor as the sewage systems built at the Instance of the 19th Century rich. But cities must be built not for economics Blone - to build up the property market - not for politics alone - to glorify the Prince (in whatever form of government). They must be built for people and tor the poorest firel.

And in this new intended order. the limits on material resources and on the environment muSt, for the first time, be recognized as fundamental challenges and constraints. The settlement by design, the settlement for people, the conserving and enhancing settlement - these are the priorities suggested by the convoluted and Interdependent revolutions of our time. With these three priorities as strategic guidelines. The tactics of the business - land use shelter, utilities, traffic, work, recreation, convenience, beauty - can be rationally considered and some decisions for policy arrived at. We do not need to repeat the pessimism of Clemenceau in 1919. As he said, we do indeed have chaos. But, unlike him, we can realize that we have enough "to make a world".



"I would like any exchitect or engineer despising mud to tell me what other material I can replace it with": Hassan Fathy.

'Man Alive' highlights Egyptian architect Hassan Fathy

The CBC series 'Man Alive' on November 10th at 10:30 p.m. presents a program devoted to the controveraial views of Egyptian Architect and Engineer. Hassan Fathy, 'Man Alive' responds to one of the most important issues to be considered at Habitat — the problem of housing the poor in developing countries. Hassan Fathy rejects the conditioned reflex of turning to modern technology for solutions and takes us back to the practical ways and native ingenuity of his people to provide answera now ignored by technocrats.

For Hassan Fathy building with bricks of sun-baked mud, strong, made on the spot, the material free. is still the most practical solution for housing the millions living in the hot belt around the middle of the earth.

Hassan Fathy's radical vision became a practical realityalmost 30 years ago with the construction of the new village of Ghourna near Luxor. His book entitled Archilecture for the Poor carefully documents every aspect of the building. But in a tragedy of misunderstanding and red tape the village remained empty.

Fathy'a vision however is not only for the poor, not only for the Third World — it is a vision of villages, towns and cities that are real communities for man.