## POLITICS

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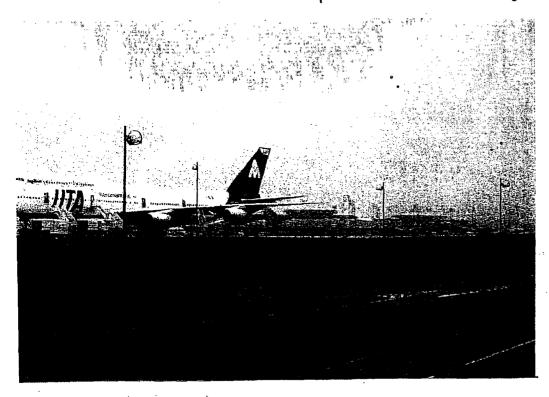


and desires of human beings. When people speak of ecol- the foxes are obviously going to eat the rabbits their ony today, one has the impression they only mean protecting the birds and the flowers against human activity. es diminishes in its turn, through starvation, the number But things are a little more complicated, is a landscape of rabbits will rise again, and so on. gardener someone who attacks or despoils nature? Is an

My preoccupation with what is now once the product of the species' activity and the condicalled "the environment" goes way tion of its survival, the interdependence of the three facback. In fact, it is my professional tors is complete. A classical problem of ecology is typioccupation. I am an engineer, a gov- cally one of hunting; how many square miles of hunting eroment functionary charged with grounds are needed for the survival of ten foxes? And land use, that is, with domesticating how densely populated with rabbits must these hunting a certain environment for the needs arounds be, in order for the foxes to reproduce? Since

Now consider a social species. Social species are architect someone who improves or degrades the urban, those which have a division of labor, such as ants, terenvironment? The oldest "ecological" journal in France mites, beavers, etc. Under these conditions, the species was originally called Revue des voies et chemins: it was itself forms part of each individual's environment, and and still is a journal of public works engineers, a profese thology, or the interrelation of individuals of the same sional journal of land-use specialists, urbanists. It has just species, then becomes a decisive aspect of ecology. In the

## Sustainable Development: History and Horizons



celebrated its one-hundred-fiftieth anniversary, under case of the human species, ethology is called sociology or the new name of Environment magazine.

In short, the environment is a very old concern of ogy will no doubt come to embody the idea of progress ular kind of ecology, which is called political ecology. itself.

Ecology, Politics, and Sustainable Development

anthropology.

Consider further that the human species is political. public policy, and ecology is not only a matter of defend. Not only are humans genetically programmed to live in ing virgin nature against an evil humanity. What is the hordes, bands, tribes, and so on, but what is more, the relation between political ecology and ecology as a nat-horde, band or tribe organizes itself into a city where the ural science applied to the human species? How can we individuals of the species define their behavior and activdefine the ideal that seems to be shared by scientific and lities by deliberation; together they judge what is good political ecology, the ideal of sustainable development? or ill. This makes them responsible for their own activity. These are the first questions I will attempt to answer. for its effects on the territory, and thus for the way they Then I will briefly examine the history of unsustainable ensure the possibility for succeeding generations to conhuman development, the crises it has provoked and their tinue living on the same territory, with the same methsolutions, before evoking the great challenges on the ods. In other words, the human species, the only species horizon of the twenty-first century, when political ecol- which is at once social and political, gives rise to a partic-

It might be objected that political ecology is just what results when people start using ecology to play politics. In fact, it all comes down to the same thing. As the saying went twenty-five years ago, "If you don't take care of politics, politics will take care of you." And if we Scientific ecology is the science of the triangular relation don't take care of the politics of ecology today, we can between a species (and the individuals of this species), its be sure that the political ecology of reality will take care activity, and its environment. As the environment is at of us all, if urban policy, agricultural policy, labor policy,



is always open, as Sophocles re- isfy even the richest countries. marked quite early in the game: "O

of sustainable development.

directly regarding the present, because a development opment." model is only sustainable if it is agreeable to everyone model. Had we continued that way, had we extended dynamics of economic liberalism. But that development model to the whole of humanity, we this first conference had no ambition soon would have exhausted all terrestrial resources and to dictate obligations. Then came rapidly saturated the atmosphere with carbon dioxide, the second major conference, in Rio to mention just one form of pollution.

The definition of sustainable development now a series of preparatory meetings. adopted by all organs of the UN is the following: "a This was the time to take firm decidevelopment model which allows the satisfaction of all signs. One of the preparatory meetings was the United the needs of a generation without compromising the Nations Commission for the Environment, presided by possibility for successive generations to satisfy their Mrs, Brundtland, the social-democratic prime minister of needs." Clearly, the notion of "satisfying the needs of all Norway. The commission immediately ran up against the human beings" is extremely ambiguous, because the rich opposition of the United States, which refused any and the poor do not demand the satisfaction of the discussion of ecodevelopment. It was permitted to say same needs. Now, the contemporary world is wracked by that the needs of the present generation should be sat-

and international policy do not concern themselves with definition goes on to envisage an order of satisfaction, ecological problems, that is, with problems involving the "beginning with the needs of the poorest." This is the critriple relation between the species, its activity, and its terion of minimal justice. It is not my criterion, but the environment, then those policies will produce perverse one upheld by John Rawls in his Theory of Justice. The effects that will render their perpetuation unsustainable. fundamental problem, from this point of view, is not that unbearable in the long run. And at the extreme, these there are inequalities: some inequalities are acceptable, unsustainable policies will even threaten the survival of as long as they permit an improvement in the situation the species. Thus we understand that one of the possible of those who are worst off. In other words, what counts objectives of all politics is that of sustainable develop- in a comparison of two situations is the level of those ment. In fact, humans are by no means obliged to seek who profit the least from each. This definition won unansustainable development. The choice imous support in the UN, obviously because it could sat-

Such is the official definition of sustainable developwondrous subtlety of man, that ment, ranked among the rights of all human beings at draws to good or evil ways!" To make the major international conferences that have punctuatthe choice of the life and survival of ed the last decade of our second millennium: Rio, Copenhuman beings is to make the choice hagen, Cairo, Beijing ... As we have just seen, this definition is a minimal compromise, extremely formalistic and What exactly is the meaning of the adjective "sus- abstract, representing a step back from the full implicatainable"? The word has two dimensions: it is synchronic, tions of what the pioneers of the 1970s called "ecodevel-

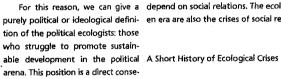
The original idea of ecodevelopment began from and can satisfy everyone's needs; but it is also diachronic. the observation that the development model of the sevextending over a long span of time, because sustainable enties entailed too much consumption of raw materials development must endure. In the postwar period, for and produced too much waste. The first major United example, the developed countries went through a mod- Nations Conference on the Environment, in Stockholm in el of development in which buying power rose rapidly, at 1972, endorsed an ecodevelopment model in which local the same pace as productivity, thus guaranteeing full communities were supposed to guard against these two employment and the growth of "gross material happi- errors. Thus the term "ecodevelopment" immediately ness" for each individual. But that was an unsustainable conveyed a sharp critical connotation with respect to the

in 1992, preceded long in advance by



frightful inequalities between human beings. Thus the isfied without compromising the possibilities of succes-

the prohibition of the exploitation of one territory by development is not negotiable." another, and so forth. In short, "sustainable develop-"ecodevelopment."



sive generations, and to call this demand "sustainability." George Bush, a de facto ally of Malaysia in the attempt But the term "ecodevelopment" was taboo, to the to limit the scope of the Rio conference, displayed exactextent that it connoted the end of unbridled free trade, ly the same attitude when he declared: "Our model of

Indeed, if human society remains as inegalitarian in ment" became the politically correct euphemism for the future as it is today, not all individuals will need to seek sustainable development—as long as they are on the Call it the homage of vice to virtue: the hypocrisy of right side of the dividing line. Today's generation does the euphemism at least allows us to pose the problem not need the satisfaction of all successive generations. (sustainability), though without straying too far along But the majority of human beings, from generation to the path of solutions (ecodevelopment). As I mentioned generation, do aspire to sustainable development. The before, no one is obliged to seek sustainable develop- conflicts exist because of the fact that in a social and ment. In point of fact, the governing elites of many counpolitical species, social relations develop: relations tries prefer unsustainable development-unsustainable between the sexes, between social classes, between for their own people, for other peoples, for future gen- communities. Some of these social relations are contraerations. Malaysia, for example, is a country that devel-dictory: the interests of certain people are not the same ops by massacring its indigenous peoples and destroying as the interests of others. And although it can be mainits forests, and what is more, it-claims the right to go on tained that all human groups have an interest in getting doing so for the next one hundred and fifty years, taking along with each other, the horizon of individual life the actions of Europe and the United States as prece-being limited, once again the individual can conclude: dents. Ultimately, sustainable development is not just "After me, the deluge." Consequently, human ecology is one economic argument among others; it is a categorical structurally informed by these social relations, which imperative that is slowly asserting itself through the shape the way the species organizes its activity and process of international public debate. But it is not yet determine how the species, organized in this wav. will accepted with the (admittedly relative) force of the Bib- appropriate its environment (which itself is the product fical imperative "thou shalt not kill." of past activity). In other words, ecological problems For this reason, we can give a depend on social relations. The ecological crises of a givpurely political or ideological defini- en era are also the crises of social relations in that era.

quence of our initial definition. We began with the ques- Consider the society that existed before the neolithic tion of what ecology was for any species and we saw revolution. The neolithic is the process whereby, some why a social and political species must seek sustainable twelve thousand years ago, human beings learned to development, if it reasons correctly from the viewpoint plant, to raise animals, to write, and to build cities. Preof its long-term interest as a species. In the field of poll-neolithic societies are already societies, but societies tics, the political ecologists are those who struggle to whose members hunt and gather. In other words, human obtain sustainable development. They struggle in the beings in those societies look on their environment as an name of a certain conception of the general interest of exterior which contains their potential sustemance; they humanity, against political and social forces who do not must fight to take from this natural environment what take that interest into account. Why were the Malaysian they need to feed and shelter themselves. In this respect elites able to declare themselves resolutely against the they are not far from the situation of the foxes in relaimperatives of sustainable development at the Rio contion to the rabbits. Their ecology obeys the same law of ference? For the same reasons that the old French nobil- "predator-prey": it is an ecology that depends on the carryity and Louis XVI could say: "After us, the deluge!" ing capacity of the territory under consideration, that is,

simple way how a particular kind of ecological crisis cor-surveys, and so on) but which at the same time confer an responds to a particular kind of social organization. In often abusive right to the product of the community preneolithic society, famine is due to the fact that there Here a second type of ecological problem develops, no is not enough game to be killed or fruit to be gathered. longer one that depends on the carrying capacity of a and migration in search of other territories is a solution. territory (which can be increased with new techniques) Like any human organization structured into social rela- but one that stems from the growing portion taken tions, this political ecology is regulated by crises, a crisis from this capacity by people who do not produce. being a situation in which it is no longer possible to go on as before but in which one doesn't yet know what is typical one is the "great bisecular fluctuation" in Europe to be done next. This is summed up in Gramsci's very which began around 1340 and lasted for two centuries beautiful phrase "the old dies away, the new cannot yet. This crisis broke out with the arrival of the Great Plaque reach the light." Some of these regulating crises are relapprecisely at the moment when Europe had reached the tively little ones in which the old dies away, but the shape point where its carrying capacity was completely satuof the new is more or less apparent, the way of over- rated, given the available agricultural techniques and coming the crisis is clear (in the case of nomadic hunters, the portion taken by nonproducers, in this case feuda it suffices to migrate). Others are major crises in which lords who spent their time waging war. The Great the new is completely unimaginable. The major crises are Plague struck a peasantry weakened by the physical limmore devastating, but also much more interesting, since its of its arable land and subjected to heavy tax levies by they can only be overcome by an invention.

series of increasingly severe crises. Cultivating plants and the population level of 1340. This is an example of a cri raising domestic animals—the twin mainstavs of the sis at once economic, ecological, social, and demograph neolithic-meant shifting from the idea that it suffices to ic. Given the relations of production (feudalism, with take from the environment to the idea that one must taxes in kind or in labor) and the techniques known a improve the environment so that it will become more the time (the swing plow, fertilization by burning cross productive in the future. Improving the animals so that stubble), the carrying capacity of the land was out they give more milk and bear their young within the protective circle of the herd. Improving the plants so that aggression from another species (the plaque microbes); they become richer in sustenance. In this way, the carry- Death was an initial solution to the crisis, albeit a partic ing capacity of the territory itself could be increased.

human societies for differentiation and thus allowed the carrying capacity of the European territory became suf advent of the city, the appearance of subgroups within ficient again. human communities, people devoting themselves to

on the quantity of human beings that can be nourished activities other than cultivating the earth; counting comby a territory, given certain techniques of hunting and manding, carrying out sacrifices, etc. This social differengathering, if they take too much, the carrying capacity of tiation is distinct from the prepentithic hierarchy in

game. Hence the need for these people to be nomadic. because it renders services to society. The example of preneolithic society shows in a very distributing water, establishing land



The ecological crises then become more complex. A the lords. In a few years, Europe lost more than half or The transition to the neolithic came about after a its population; it would require two centuries to regain ularly horrid one: the population diminished until the Moreover, this revolution increased the capacity of point where the plague could no longer spread and the

This great crisis brought profound modifications to

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the techniques of production and to social relations. land nor looms but they were avail-Three-year rotation of fields and the association able to work. The resolution of the between multicrop cultivation and animal husbandry great bisecular fluctuation, the great (with the animal waste serving as fertilizer for the ecological crisis, opened up a new wheat) marked a considerable progress, in the form of destiny for Europe: the capitalist revan improvement of the earth itself. With a share of olution in agriculture and in industry the activity serving to better the environment, the (at first, the textile and construction labor/environment relation became more sustainable, industries) But the development of these techniques, which consti-



al revolution" of modern times.



Capitalism is constituted of complex social relations tute a kind of second degree of the neolithic revolution. The entrepreneurs have money, with which they can hive (labor expended to improve the earth), meant that the proletarians. Thus they exchange money for work, and peasants had to be able to trust that the labor they fur- additionally take care of selling the products. The entrenished would come back to them in another form, that preneur serves as the intermediary between the producof a higher yield of products for consumption or for sale. er and the buyer. He takes the risk of selling or not sell-This entailed a limitation of the portion taken by the inq. but in return he demands the right to fix salaries and lords. In fact, the new economy of the renaissance organize the work. Capitalism is thus liable to much more implied the transition from taxes in kind or labor to taxes in money, the shift from the metavage system to ten- as we have seen, went through several stages; taxes ant farming. This is the phenome- through forced labor, taxes in kind, taxes in money. non that triggered the process of But over two centuries, capitalism has gone through constant progress all the way to the far more numerous and varied development models nineteenth century: the "agricultur- depending on the period and the country."

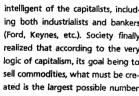
Initially, the situation is always the same: the rich are But I have only presented the surrounded by completely resourceless people who put bright side of things: the revolution themselves at their service. This is the first stage of primcarried out against the lords, against the predators. It is itive accumulation, where rich merchants or important often forgotten that this revolution was also carried out artisans can shamelessly exploit wage-earning proletariagainst the peasants themselves. For the peasantry of ans. As there is a seemingly infinite offer of available the feudal era worked two kinds of fields: the fields of hands, or what Third-World economists call a "Lewisite" the lords, and those of the village community (the com- labor offer (after the theorist Arthur Lewis), the salary mons). Now, it is clear that the peasants who accepted for which labor power can be purchased is negligible. to furnish the effort required to improve the land were. The first type of ecological crisis met by the human also going to demand that they be allowed to work the species under primitive capitalism arose from the fact same land in years to come. And for that, the idea of that salaries did not allow most workers to correctly common properties had to be done away with. The reproduce, Indeed, the first ones in England to defarmers who carried out the agricultural revolution of nounce capitalism were not the workers (they couldn't!) modern times were people who struggled to abolish but the recruiting sergeants. They pointed out that in the common properties, to "enclose" them. As to the certain counties, the pressure of businesses on the labor others, at first they were able to work on the land of the market—to recall the carrying-capacity image of animal rich peasants, thus forming an "agricultural proletariat." flocks subject to hunters—was such that at seventeen or But the more the productivity of agricultural labor eighteen years of age, the young men were unable to increased, the less farmers needed agricultural laborers bear arms, in other words, capitalism undermined the to work their land. Thus there developed an urban pro- possibility of recruiting an effective English army! Rapidletariat alongside the agricultural proletariat. Traders ly, over the first half of the nineteenth century, the and artisans began to hire "proletarians" who had noth- recruiting sergeants were joined by doctors who ing to sell but their muscular force: they had neither demanded an end to overexploitation, particularly of

children in the coal mines. In a sense these philanthrop- The Ecological Crises of Our Time ic doctors, or "hygienists," backed by the militants of the fledgling workers' movement, were the ecologists of To achieve that result, a great crisis had been necessary. the first industrial revolution. This is a very interesting Thanks to the alliance of the unionists and the hygienists. point, which I frequently rediscover in the Third World the physical sustainability of wage labor had been

nizers.

produce rules obliging the entrepreneur to pay his popular communities celebrated by the cinema of "poetworkers at least well enough so that they could repro- ic realism," the destruction of an entire workers' culture duce themselves and their families. In the face of this cri- where people didn't live so miserably after all. But thanks sis, society began to invent. It began by limiting the right to the "social progress" of the postwar years, the to employ children, so that the entrepreneurs would be evenings at the riverside dance halls gave way to the obliged to pay the parent adequately until the children evenings by the TV set. We became accustomed to meahad completed their growth. This was the struggle carried out by the most enlightened capitalists, those who This new revolution allowed the resolution of one of sought the sustainability of capitalism, and by the most capitalism's fundamental problems, the problem of the enlightened unionists, those who sought the sustain- client, since capitalist production was now principally ability of wage labor.

After the Second World War, these struggles would



ing power of wage labor was what spurred the eco- od, political ecology developed independently of the nomic development of the postwar period.

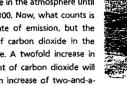
today: very often, when the mayor of a city in Mexico, attained, with the prohibition of child labor and more Peru, or Brazil is introduced to me as generally the reduction of labor time, as well as the an "ecologist," I find he is a doctor, struggle against the insalubrity of workers' housing and that his municipal council is (these being the two major concerns of the workers' composed primarily of union orga- struggle in Europe from 1840 to 1920). The stakes of the vears 1930-1950 were to guarantee the ability not only Thus when capitalism became to survive but to live well. "living well" being reduced. the dominant mode of production it however, to "consuming a lot." This version of the good ran up against a very specific crisis, for it had failed to life was also the bad life: it implied the destruction of the sold to the workers themselves.

But this revolution led to a new type of ecological finally lead to a model of development known as crisis: the crisis of overconsumption, symbolized by the "Fordism." This extraordinary case resulted from the traffic jam and the destruction of the environment. The struggles of the unionists and the reflection of the most discourse of the environment is a new one, wielded by intelligent of the capitalists, includ- other forces than the unionists. In the early days of capiing both industrialists and bankers talism, the hygienist doctors and the unionists forged a (Ford, Keynes, etc.). Society finally natural alliance. As soon as the minimum was obtained realized that according to the very (the prohibition of child labor, the eradication of worklogic of capitalism, its goal being to ers' slums) and the decisions were increasingly between sell commodities, what must be cre- working less and earning more, taking less risks and ated is the largest possible number obtaining "risk benefits," etc., what occurred was a disof clients. As Henry Ford said, "The sociation between the doctor, the hygienist, or the ecolworking class being the most populous class, it must ogist, on the one hand, and a certain type of unionist, on become a wealthy class, to allow for the sale of our mass the other. A "paycheck unionism" appeared, ready to production." Ford's idea, broadly shared by the unionists accept a regression in the quality of life in exchange for of course, was that workers' salaries had to be systematheightened buying power. This is why around 1970, ically increased. And this systematic increase in the buy- which marks the culminating moment of the Fordist periworkers' movement and often even in conflict with it. In the United States, Germany, France, and Italy, a major difference developed between those fighting for a better 1975 will be in the atmosphere until salary and those fighting for better conditions, those the year 2100. Now, what counts is fighting for more benefits and those fighting for less not the rate of emission, but the harm, those who demanded "a job, whatever the price" quantity of carbon dioxide in the and those who refused a polluting factory.

This divergence is extremely interesting, because the amount of carbon dioxide will unlike the shared struggle of the unionists and the provoke an increase of two-and-acrises of overconsumption were initially local (traffic the North African agricultural strip along the coast, jams, air pollution, noise, etc.); indeed, political ecology as

lems led us to relativize the very success of the "social more and more greenhouse gases continue to be promarket economy" promised in postwar Europe by the duced), local ecological crises of overconsumption (for Christian-democratic and the social-democratic parties. the upper classes, in Brazil no less than Europe, consume This development model, the European variant of more and more), the dangerous working conditions of Fordism, was considered a good capital-labor comprothe early twentieth century, even the crises of early capmise, despite all the criticism that was addressed to it at italism. Hunger has reappeared (in England, the life its zenith. It only needed to be "improved." Today how- expectancy of the least well-established third of the ever, we realize it was completely untenable. For exampopulation has begun to diminish) and diseases linked to ple, the destruction of the ozone layer is taking place unsanitary conditions are on the rise (for example, lead today, whereas for many years now it has been prohibit- poisoning is again a problem in Paris . . .). ed to release chlorofluorocarbons into the atmosphere; tion is still there. The gases emitted between 1945 and minimum of laws allowing wage earners to survive and

atmosphere. A twofold increase in



hygienists, it allows us to distinguish two aspects of "sus-half degrees centigrade in the mean temperature of the tainability." People began to become conscious of the planet, and a rise in the sea level of thirty to sixty cenfact that a society which immediately and equitably sat-timeters. At the current rate, these two changes will issies the essential needs can in fact be dangerous, make life in Bangladesh impossible around 2050. Given because it poisons the aquifers, because it renders urban that Bangladesh will then number around two hundred growth uncontrollable, because over only a few genera- million inhabitants, one can imagine the dimensions of a tions it can make the survival of precious species impos- Bengali evacuation to India. Not to mention the evacuasible, because it worsens the lot of human beings living tion of the Egyptians and North Africans to Europe after thousands of miles away. The effects of these ecological the flooding of the Nile delta and the disappearance of

Thus the social and economic "conquests" of the a social movement had mobilized itself against them years 1950-1970 have had serious ecological consealready in the 1960s. Then, in the 1980s, we became con- guences. Today, the compromise of those years has scious of the "global" crises, such as the erosion of the entered a crisis, and throughout the world certain politiozone layer, an aspect of the greenhouse effect. In these cal and economic leaders are attempting to bring wage global crises, the "authors" of an unsustainable form of labor back to the situation of the 1930s, and indeed. to development can live in one time and place (the United the situation of the nineteenth century. This regressive States and Europe, at the end of the twentieth century) movement has been called the "hourglass society." while the victims live in another time and place Because of it, all the different types of ecological crises (Bangladesh, in the middle of the twenty-first century). that emerged in succession since the beginnings of capiindeed, this new consciousness of ecological probatalism have been reactivated; global ecological crises (for

Are we then heading toward a new convergence of the problem is that the molecules of chlorine gas were political ecology and movements of defense for wage emitted twenty years before, in the northern hemi- earners and more generally for "the poor"? It is quite sphere for the most part. As to the greenhouse gases, probable. But much still remains to be understood about principally carbon dioxide, they remain in the atmost he split that developed between the workers' movephere for an average of one hundred and fifty years. All ment and the ecology movement, after the former had the carbon dioxide emitted since the industrial revolu- obtained, over the course of the twentieth century, a



even to profit from progress. It was then that a certain in solidarity and sustainability against those who say conception of "progressive politics" represented by com- "After me, the deluge." munism and social democracy became rigidified, while ment.

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already too late, do we begin to understand what has the differences run deeper.

happened in history. Thus the work-

Let us pause over this last point. It is sometimes said political ecology developed into an autonomous move-, that ecology is a concern of the rich; the phrase was pronounced at the Rio conference, for example. Ecology is thought of as a luxury, an indulgence after one has satisfied "all the rest." Now, the problem is that "all the rest" Political Ecology, the "Progressive Movement" of the (that is, immediate needs) is already linked to ecological matters, though they are not designated as such. There is no way to distinguish between "environment" and Because they share the same origin (resistance to the "development" in the Sahel or in northeastern Brazil: for excesses of capitalism), the movements of political ecol- a very poor peasant, the improvement of the environogy and socialism bear a number of initial similarities. ment is development. The same is also true in a slum; is First, they both adopt a materialist discourse: "These are the installation of a sewer system and of drinking water the current forces of production, these are the current urban ecology or "social development"? In reality, the relations between productive human beings, and this is same nongovernmental associations took part in the Rio the basis for our reflection." More precisely, this is a disconference (on the environment) and the Copenhagen course of historical materialism: the Marxists, the most conference (on social development). But in the already sophisticated theorists of the workers' movement, devel-relatively rich countries, a large part of the middle classop a history of the modes of production comparable to es will be opposed to ecology, considering it as a menace the broad picture of the history of humanity's relation to to the progress of its well-being, because respect for the the environment which I have just sketched out. Second, environment seems to limit its buying power! In point of both the Marxist and the ecologist discourses are "his-fact, ecology appeals today to the very poor and the very toricist": they hold that if today we can make a given rich, it irritates the middle classes of the middle countries judgment, it is, because we have arrived at a particular (including wage earners). As we have just seen, ecology point in history. Historicism is the excessive tendency to and the social movements of the twentieth century believe that Minerva's owl only takes flight after night- began to split when unsustainable possibilities for a capfall, as Hegel put it. Only when it is all over, when it is ital/labor compromise appeared within capitalism. But

The first difference is that ecological materialism is ers' movement and political ecology no longer teleological, whereas the principle theorists of meet in their alarmist, doom-saying socialism, the Marxists, begin with the presupposition proclamations. But third (and as a that the development of the forces of production is the counterpoint to their historicism), foundation of all social and even moral progress: because both discourses are dialectical: they we are more and more able to appropriate nature, we think in terms of tensions in a sys- will live better and better. To which moderate ecologists tem, not in terms of places in that answer "That depends," and extreme ecologists retort: system. For example, the social tensions caused by the "On the contrary, the development of the forces of proexploitation of proletarians result in workers' move-duction only makes matters worse." For my own part, I ments, thanks to which modes of regulation are set up am a moderate ecologist. The ecologists do not share which require capitalism to ensure the survival of wage this vision of history according to which the developearners. In the same way, the tensions raised by capital-ment of the forces of production, or in other words, ist disrespect for the environment set off ecological the capacity to act upon nature, directly determines movements which impose protective measures. Fourth, progress. There can be bifurcations or U-turns, progress both are "progressive movements": they uphold progress on certain levels and regression on others, or progress at

nen past and future become clear. We now know that that phrase as a definition of paradise! e very definition of "the good life" is the object of a rmanent struggle which no doubt will never be ered "better" by future generations. solved, not only because there will always be This means we must define the ipressed and oppressors, but also because the ques- changing content of progress demoins are complex and often undecidable. For example, cratically, through free deliberation. ations between men and women were formerly con- Are we completely disoriented? No, lered natural, and consequently remained outside the because a certain number of values ld of political deliberation. The Greeks deliberated seem certain, either because they tween men and never even dreamt of the possibility have been reached through the prinair aspirations is highly chaotic and unpredictable.

itic. This is why there will never be a moment when his- twenty-first century. y can be summed up and perfectly understood.

We know that every definition of "progress" entails Alain Lipietz delivered this lecture at the School of Fine Arts in Paris. perative "thou shalt not kill" now becomes "you must the author. t commit any action that risks causing the death of an lividual, neither several generations later, nor at the her end of the world." But if we go one step further, if I are required "not to do to others what you would t have done to you"-Kant's way of secularizing the ristian imperative—then a highly complex situation lerges. Because what would the inhabitants of agladesh, two generations from now, not have me do them today? If the definition of progress in the cen-

certain time which provokes regression at another tury of the enlightenment was indeed a secularization of Judeo-Christian morality, then think of the image that A second difference has to do with historicism. We the prophet Issiah gave of paradise: "The valleys will be n no longer believe that there is a moment when Min-filled and the mountains lowered." An ecologist defendva's owl takes flight. There is no decisive moment ing his valley in the Pyrenees probably wouldn't accept

Thus we no longer even know what will be consid-



at women could be given the vote. Why did women ciple of discussion, in Habermasian fashion, or because tain the right to vote long after wage earners had they spring from the respect that seizes us whenever we tained the freedom to organize? The order in which look the other straight in the eyes, as Levinas maintains. cial movements are able to achieve the recognition of What are these values? The first is the value of autonomy: to reach a situation where each person can decide What is more, nothing guarantees that humanity will on his or her own fate, as far as possible. Progress then e day attain a situation of total transparency to itself, becomes the progress of a community where individuals ien everyone will know what they want and it will be tend increasingly to grasp and control the ends of their ssible to find a solution which is acceptable to the own actions. The second is the value of solidarity, which tire community. It can even be shown that there will is one aspect of sustainability: no one must be left out in ver be a procedure to bring all individuals, even reathe cold, the satisfaction of human needs is to be meanable individuals, into agreement. And psychoanalysis sured by the satisfaction of those who are least well off. ninds us that a purely reasonable individual cannot. Finally, the other aspect of sustainability, the value of ist. So is it good or bad to transform a thicket into a responsibility: what is good for us today must be prerden? There is no way to know: everything depends served for tomorrow. Such are the values that can sustain your taste, on the quantity of thickets, jungles, or gar- a renewed idea of progress-precisely the idea the ns around you, and so on. Aesthetics cannot be demo-human race will need in order to face the perils of the

E requirement of sustainability, which means that the November 18, 1996. It was transcribed by Valerie Picaudé and revised by