The Dark Ecology of Magnitogorsk

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MAGNITOGORSK, SOUTH URALS, RUSSIA.

Rich in various ores, the South Urals region of the Russian Federation has been exploited through mining and industrialization over the past century. Magnitogorsk represents the promise of social transformation ushered in by the October Revolution that this rich iron ore would spark a new powerful industry and create a new city. It was euphoria of possibilities. The urban vision embodied the dream that science could develop a better model for society. By the end of the 1930's Magnitogorsk Works was producing 10% of the country's steel1 . Joseph Stalin's vision of the most technologically advanced steel plant in the world came at the heels of the Soviet Union's rapid transformation from an agrarian society to a modern, industrialized country. It was also the moment of the Soviet avant-garde, when Constructivists advocated for new radical principles in construction. El Lissitzky, Leonidov and the OSA team from the Soviet Union alongside an international group of architects like Ernst May participated in the competition for the urban planning of this new city2.

Magnitogorsk lies beyond a giant lake that was created by damming the Ural River—the steel factory would be surrounded by forest. The new socialist city, or Sotsgorod, separated industrial zones from residential ones with greenbelts that purportedly kept toxins from intermingling with domestic life. But according to Vilii Bogun, the city's primary architect, "The garden city, about which the first settlers

of Magnitaya dreamed, was, to put it mildly, never realized3." As history would show later, the forest proved inadequate to stop the colossal amount of pollution from seeping through the water, air and soil. As a new city though Magnitogorsk represented for architects and urbanists of the time the promise of a social and technological utopia.

DARK ECOLOGY

Mining and industrial production have degraded eleven percent of the earth's soil1. Dark Ecology explores an alternative landscape for the post-industrial wasteland. Wasteland is a territorial concept that typically conveys the unwanted, exhausted and useless. This project aims to rethink emerging ecologic strategies in remediation, the act of cleaning, and often the attempt (and anxiety) to erase the material traces of production. In his lecture titled "Ecology without Nature in Athens Slavoj Žižek defines the ecological problem of the concept of "nature", "The big Other doesn't exist."... Nature has already accepted our pollution." This project investigates the creative potential in the processes, topographies and material derivatives that constitute degraded terrains. Dark Ecology can be embraced as a design methodology; one that acknowledges that not all human damage is reversible. As a project it relies on the terrain of ambiguity; natural/man-made, clean/dirty, unwanted/ desired are rejected polarities. This "messy whole" and its material, chemical and "natural" manifestations is embraced, revealing surprising architectural, urban and landscape potentials. Magnitogorsk - because of the extremity of its degradation juxtaposed with its architectural promise in the industrial age - becomes the testing ground for Dark Ecology.

