these two modeling systems has yet to be worked out, but in principle both could be integrated into the Earthscore Notational System.

the Greek that means "necessary path": "chre" meaning "necessary," and "ode" meaning "path." If any natural process phenomena in nature can be understood by careful observation. Each "event pat-tern" can be understood in terms of its 10u and variations on these seven (Casti 1988 chreods, can be rigorously modeled us-ing the seven elementary catastrophes These necessary pathways of nature, or chreods, can be rigorously modeled usa flooded river returns to its riverbed. necessary for its structural stability, like is disturbed it will return to the pathway ing structural "chreod." nature, seven catastrophes readily apparent. Chreod is a term taken from the combinations of the bastability of discontinuous Yet the underlyare multiple and

ley.

Mountains at the edge of the Hudson Val-

In my own work as a video artist, I have repeatedly returned to moving water as the richest single source for developing a vocabulary of "chreods" in nature. Water takes so many different shapes such as billows, droplets, back curls, waves, fantails, and cascades. Each of these shapes exhibits a different pathway in which water can flow, a different chreod. In 1975, I spent the year recording over thirty-five

chreods on videotape at the waterfall in High Falls, New York. In 1983, I did a study of the Great Falls in Paterson which I edited into a tape with five sets of seven different kinds of chreods. In 1984, I did a study of the coast of Cape Ann above Boston. In 1986, I crossed the Atlantic Ocean on a sixty-foot North Sea Trawler and videotaped over thirty hours of ocean waters. Currently, I am working on a video interpretation of nine different water ecologies in the Shawangunk

example—you have destroyed the natural process of birthing in that site. odby a chreod. The crabs only lay their eggs in the wet sand during the ebb tides crestroy that figure of regulation, that chrenecessary figure of regulation. If you de-The birthing activity takes place within a sures maximum protection for ated by the full moon in June. maica Bay is a natural process regulated Horseshoe crabs laying their eggs in Jawith which to score natural phenomena can give us an articulate set of notes Building -by stripping the beach of sand, for predator birds and land ф а vocabulary of chreods animals This asthe eggs

To sum up this section on the firstness of thirdness, I am saying that the difficulty of discovering clear "notes" in the buzz-

insure ing to its natural score. system incapable of performing accordbehavior of ours that is making the ecocomply would mean that we need to rein compliance with that score. Failure to tem actually performs or fails to perform can observe and monitor how the ecosysservation. Once we know the score we from the ecosystem itself by careful obsystem. We would be eliciting the score events that constitute that particular ecothe "score" for the ensemble of recurring these chreods would, in effect, constitute The syntax of interrelationships between these various chreods relate to each other. in the ecosystem. We can then find out, through more observation and study, how structural stability of the various events we can rigorously model the underlying significant. By chreods of an ecosystem. The system-atic observation of "everything" would Threeing and schooled to identify the be resolved with systematic observation of an ecology by video teams trained in ing, blooming confusion of nature can interpret our score and/or to correct any we did not miss identifying the chreods anything

