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Plastic Pebbles

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Plastic Pebbles

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A seagull
Measures the height of winter surf,
Sun and wind seeping through his feathers
While beneath him waves gather rocks from the
 shoreline,
Sift, sort, grind, and leave them at low tide,
Glinting pebbles, glistening sand.

People count, sort, and tally the pebbles
As the tide rises and falls to the rhythm of the moon.
We read the moon's language
Measuring days, nights, months, years
According to the passage of sun and moon;
Our gaze soars from stars into the depths of space.

And we leave those pebbles on the beach and build
 machines to describe our universe.
Knowledge multiplies; accumulated thought patterns
Illuminate the darkness of abstraction.
The tide takes bottles from our shoreline,
Grinds them smooth, then tosses them back,
Muted green and brown
While a foghorn sounds through the mist
Barely audible above the wave roar.

Children gather rocks and bottle-pebbles from the
 beach to sort, count, tally, and weigh.
Parents feed facts into computers
Until waves of words and figures
Inundate our world behind the shoreline.

When thinkers left their counting pebbles by the sea
They built their theories on the supposition "If..."
They built, bound only by imagination and logic.

Still we create new theories from the depths of our
 insatiable minds,
Framing deductions, mathematical reason—
Concise amongst verbosity.
Our machines produce, computers test new ventures
Inspired by wind, sun, and space.

One day,
Two men taught and a computer performed.
The computer performed and the men learned.
Together they solved a problem,
Adding new dimension to our thought.
Together they built a proof mathematicians had
 sought alone for a hundred years.*

But what of limits?
What if applications clash with oceans
Or distortions destroy?

Today's tides pluck plastic bottles from the shoreline
And cannot toss them back ground smooth and
 glistening wet.
Instead toss them bent but indestructable onto rocks
Or gather them in eddies and currents to be carried
 through oceans
To contaminate distant beaches.

We will learn with our machines, produce, judge,
 explain, and solve
In unimagined ways
While seagulls watch,
Sun and wind filtering through their feathers;
Waves grind rocks and bottle-pebbles green and
 brown
To glistening sand;
Waves will silence the foghorn,
And what of the plastic?

* In 1976 two graph theorists, Kenneth Appel and Wolfgang Haken, proved that four colors suffice to color any map drawn on a plane so that no two adjacent countries are the same color. This is the first documented mathematical proof including computations compiled by computers (1,200 hours, 3 computers, used both as a research tool and in final computations). University of Illinois, July 1976. While solving this problem, the mathematicians learned from the computations carried out by the computers, and likewise, the computers' calculations were modified based on what the researchers deduced from the earlier calculations.