her first magazine article since the publication of her best-selling

RACHEL CARSON

July 1956
HELP YOUR CHILD TO WONDER

ONE stormy autumn night when my nephew Roger was about 20 months old I wrapped him in a blanket and carried him down to the beach in the rainy darkness. Out there, just at the edge of where-we-couldn’t-see, big waves were thundering in, dimly seen white shapes that boomed and shouted and threw great handfuls of froth at us. Together we laughed for pure joy—he a baby meeting for the first time the wild tumult of Oceanus, I with the salt of half a lifetime of sea love in me. But I think we felt the same spine-tingling response to the vast, roaring ocean and the wild night around us.

A night or two later the storm had blown itself out and I took Roger again to the beach, this time to carry him along the water’s edge, piercing the darkness with the yellow cone of our flashlight. Although there was no rain the night was again noisy with breaking waves and the insistent wind. It was clearly a time and place where great and elemental things prevailed.

Our adventure on this particular night had to do with life, for we were searching for ghost crabs, those sand-colored, fleet-legged beings whom Roger had sometimes glimpsed briefly on the beaches in daytime. But the crabs are chiefly nocturnal, and when not roaming the night beaches they dig little pits near the surf line where they hide, seemingly watching and waiting for what the sea may bring them. For me the sight of these small living creatures, solitary and fragile against the brute force of the sea, had moving philosophic overtones, and I do not pretend that Roger and I reacted with similar emotions. But it was

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good to see his infant acceptance of a world of elemental things, fearing neither the song of the wind nor the darkness nor the roaring surf, entering with baby excitement into the search for a "ghos."

It was hardly a conventional way to entertain one so young, I suppose, but now, with Roger a little past his fourth birthday, we are continuing that sharing of adventures in the world of nature that we began in his babyhood, and I think the results are good. The sharing includes nature in storm as well as calm, by night as well as day, and is based on having fun together rather than on teaching.

I spend the summer months on the coast of Maine, where I have my own shoreline and my own small tract of woodland. Bayberry and juniper and huckleberry begin at the very edge of the granite rim of shore, and where the land slopes upward from the bay in a wooded knoll the air becomes fragrant with spruce and balsam. Underfoot there is the multi-patterned northern groundcover of blueberry, checkerberry, reindeer moss and bunchberry, and on a hillside of many spruces, with shaded ferny dells and rocky outcroppings—called the Wildwoods—there are ladyslippers and wood lilies and the slender wands of clintonia with its deep blue berries.

When Roger has visited me in Maine and we have walked in these woods I have made no conscious effort to name plants or animals nor to explain to him, but have just expressed my own pleasure in what we see, calling his attention to this or that but only as I would share discoveries with an older person. Later I have been amazed at the way names stick in his mind, for when I show color slides of my woods plants it is Roger who can identify them. "Oh, that's what Rachel likes—that's bunchberry!" Or, "That's juniper (juniper) but you can't eat those green berries—they are for the squirrels." I am sure no amount of drill would have implanted the names so firmly as just going through the woods in the spirit of two friends on an expedition of exciting discovery.

In the same way Roger learned the shells on my little triangle of sand that passes for a beach in rocky Maine. When he was only a year and a half old, they became known to him as winkies (periwinkles), weks (whelks) and mukkies (mussels) without my knowing quite how this came about, for I had not tried to teach him.

We have let Roger share our enjoyment of things people ordinarily deny children because they are inconvenient, interfering with bedtime or involving wet clothing that has to be changed or mud that has to be cleaned off the rug. We have let him join us in the dark living room before the big picture window to watch the full moon riding lower and lower toward the far shore of the bay, setting all the water ablaze with silver flames and finding a thousand diamonds in the rocks on the shore as the light strikes the flakes of mica embedded in them. I think we have felt that the memory of such a scene, photographed year after year by his child's

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In the sand dwell secret things like ghost crabs, which live in little pits at the edge of the sea.

Children delight in small things because they are closer to the ground than we.

A boy can sit forever in the silent woods, finding the world mirrored in a still pool.

The quiet woods path, carpeted in silvery green, feels deep and springy on a rainy day.

Up on the sand dunes, stinging hot, it seems like the very edge of the world.
Help Your Child to Wonder

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mind, would mean more to him in manhood than the sleep he was losing. He told me it would in his own way, when we had a full moon the night after his arrival last summer. He sat quietly on my lap for some time, watching the moon and the water and all the night sky. Then he snuggled closer and whispered, "I'm glad we came."

A rainy day is the perfect time for a walk in the woods. I always thought so myself; the Maine woods never seem so fresh and alive as in wet weather. Then all the needles on the evergreens wear a sheath of silver; ferns seem to have grown to almost tropical lushness and every leaf has its edging of crystal drops. Strangely colored fungi—mustard-yellow and apricot and scarlet—are pushing out of the leaf mold and all the lichens and the mosses have come alive with green and silver freshness.

Now I know that for children, too, nature reserves some of her choice rewards for days when her mood may appear to be somber. Roger reminded me of it on a long walk through rain-drenched woods last summer. I was in tears, of course, but by his responses. There had been rain and fog for days, rain beating on the big picture glass window, fog almost shutting out sight of the bay. No lobstermen coming in to tend their traps, no gulls on the shore, scarcely even a squirrel to watch. The cottage was fast becoming too small for a restless three-year-old.

"Let's go for a walk in the woods," I said. "Maybe we'll see a fox or a deer." So into yellow rain coat and you-wester and outside in joyous anticipation.

Having always loved the lichens because they are a quality of fairyland—silver rings on a stone, odd little forms like bones or horns or the shell of a sea creature—I found Roger noticing and responding to the magic change in their appearance wrought by the rain. The woods path was carpeted with the so-called reindeer moss, in reality a lichen. Like an old-fashioned hall runner, it made a narrow strip of silvery gray through the green of the woods, here and there spreading out to cover a larger area. In dry weather the lichen carpet seems thin; it is brittle and crumbles underfoot. Now, saturated with rain which it absorbs like a sponge, it was deep and springy. Roger delighted in its texture, getting down on chubby knees to feel it, and running from one patch to another to jump up and down in the deep, resilient carpet with squeals of pleasure.

It was here that we first played our Christmas tree game. There is a fine crop of young spruces coming along and one can find seedlings of almost any size down to the length of Roger's fingers. I began to point out the baby trees.

"This one must be a Christmas tree for the squirrels," I would say. "It's just the right height. On Christmas Eve the red squirrels come and hang little shells and cones and silver threads of lichen on it for ornaments, and then the snow falls and covers it all with shining stars, and in the morning the squirrels have a beautiful Christmas tree ... And this one is even tinier—it must be for little bugs of some kind—and maybe this bigger one is for the rabbits or woodchucks."

Once this game was started it had to be played on all woods walks, which from now on were punctuated by shouts of, "Don't step on the Christmas tree!"

A CHILD'S world is fresh and new and beautiful, full of wonder and excitement. It is our misfortune that for most of us that cut-eyed vision, that true instinct for what is beautiful and awe-inspiring, is dimmed and even lost before we reach adulthood. If I had influence with the wise fairy who is supposed to preside over the christening of all children I should ask that her gift to each child in the world be a sense of wonder so indestructible that it would last throughout life, as an unfailing antidote against the boredom and disenchantments of later years, the sterile preoccupation with things that are artificial, the alienation from the sources of our strength.

If a child is to keep alive his inborn sense of wonder without any such gift from the fairies, he needs the companionship of at least one adult who can share it, rediscover with him the joy, excitement and mystery of the world we live in. Parents often have a sense of inadequacy when confronted on the one hand with the eager, sensitive mind of a child and on the other with a world of complex physical nature, inhabited by a life so various and unfamiliar that it seems hopeless to reduce it to order and knowledge. In a mood of self-defeat, they proclaim, "How can I possibly teach my child about nature—why, I don't even know one bird from another!"

I sincerely believe that for the child, and for the parent seeking to guide him, it is not half so important to know as to feel. If facts are the seeds that later produce knowledge and wisdom, then the emotions and the impressions of the senses are the fertile soil in which the seeds must grow. The years of early childhood are the time to prepare the soil. Once the emotions have been aroused—a sense of the beautiful, the excitement of the new and the unknown, a feeling of sympathy, pity, admiration or love—then we wish for knowledge about the object of our emotional response. Once found, it has lasting meaning. It is more important to pave the way for the child to want to know than to put him on a diet of facts he is not ready to assimilate.

If you are a parent who feels he has little

3 Outdoor food favorites...better with

Whole-egg Mayonnaise

1 Corn-on-the-Cobs

Husk corn and place on doubled squares of aluminum foil. Spread with Hellmann's Mayonnaise, sprinkle with salt and pepper. Wrap foil around corn, folding edges to seal. Place on hot coals or grate and cook 10 minutes, turning once.

2 Barbecued Chicken

Combine 1 tbsp. lemon juice with ½ cup Hellmann's Mayonnaise. Brush over chicken. Sprinkle with salt and pepper. Broil, skin side up, for 10 min. Brush cooking side once with mayonnaise. Turn and brush with mayonnaise. Broil 15 min. longer, brushing once again.

3 Favorite Potato Salad

Dice 8 peeled cooked potatoes. Combine with 1 cup diced celery, ½ small onion, grated, ½ cup chopped green pepper, ¼ cup chopped pimiento, 1 cup Hellmann's Mayonnaise, ½ tablespoon cider vinegar, ¾ tsp. salt and ¾ tsp. pepper.

And naturally, really creamy potato salad calls for real mayonnaise!

HELLMANN'S® REAL MAYONNAISE

It's so easy to have a "golden touch" with foods that call for mayonnaise. You bring out their whole flavor when you use the creamy smooth mayonnaise that's made with whole eggs—whites, yolks, even extra yolks. That's always...
EXPLORING nature with your child is largely a matter of becoming receptive to what lies all around you. It is learning again to use your eyes, ears, nostrils and fingertips, opening up the disused channels of sensory impression.

For most of us, knowledge of our world comes largely through sight, yet we look about with such unseeing eyes that we are partially blind. One way to open your eyes to unnoticed beauty is to ask yourself, "What if I had never seen this before? What if I knew I would never see it again?"

I remember a summer night when such a thought came to me strongly. It was a clear night without a moon. With a friend, I went out on a flat headland that is almost a tiny island, being all but surrounded by the waters of the bay. There the horizons are remote and distant, and the edge of space. We lay and looked up at the sky and the millions of stars that blazed in darkness. The night was so still that we could hear the buoy on the ledges out beyond the mouth of the bay. Once or twice a word spoken by someone on the far side was carried across on the clear air. A few lights burned in cottages. Otherwise there was no reminder of other human life in company and I was alone with the stars. I have never seen them more beautiful: the misty river of the Milky Way flowing across the sky, the patterns of the constellations standing out bright and clear, a blazing planet low on the horizon. Once or twice a meteor burned its way into the earth's atmosphere.

It occurred to me that if this were a sight that could be seen only once in a century or even once in a human generation, this little headland would be thronged with spectators. But it can be seen many scores of nights in any year, and the lights burned in the cottages and the inhabitants probably gave not a thought to the beauty overhead; and because they could see it almost any night perhaps they will never see it.

An experience like that, when one's thoughts are released to roam through the lonely spaces of the universe, can be shared with a child even if you don't know the name of a single star. You can still drink in the beauty, and think and wonder at the meaning of what you see.

And then there is the world of little things, seen all too seldom. Many children, perhaps because they themselves are small and closer to the ground than we, notice and delight in the small and inconspicuous. With this beginning, it is easy to share with them the beauty; it is usually missed because we look too hastily, seeing the whole and not its parts. Some of nature's most exquisite handicap work is on a miniature scale, as anyone knows who has applied a magnifying glass to a snowflake.

An investment of a few dollars in a good hand lens or magnifying glass will bring a new world into being. With your child, look at objects you take for granted as commonplace or uninteresting. A sprinkling of sand grains may appear as gleaming jewels of rose or crystal hue, or glittering jet beads, or as a melange of Lilliputian rocks, spines of sea urchins and bits of small shells.

A lens-aided view into a patch of moss reveals a dense tropical jungle, in which insects large as tiger prowl amid strangely formed, luxuriant trees. A bit of pond weed or seaweed put in a glass container and studied under a lens is found to be populated by hordes of strange beings, whose activities can entertain you for hours. Flowers (especially the composite), the early buds of leaf or flower from any tree, or any small creature reveal unexpected beauty and complexity when, aided by a lens, we can escape the limitations of the human size scale.

Senses other than sight can prove avenues of delight and discovery, storing up for us memories and impressions. Already Roger and I, out early in the morning, have enjoyed the sharp, clean smell of wood smoke coming from the cottage chimney. Down on the shore we have savored the smell of low tide—that marvelous evocation combined of many separate odors, of the world of seaweeds and fishes and creatures of bizarre shape and habit, of tides rising and falling on their appointed schedule, of exposed mud flats and salt rime drying on the rocks. I hope Roger will later experience, as I do, the rush of remembered delights that comes with the first breath of that scent, drawn into one's nostrils as one returns to the sea after a long absence. For the sense of smell, almost more than any other, has the power to recall memories and it is a pity that we use it so little.

HEARING can be a source of even more exquisite pleasure but it requires conscious cultivation. I have had people tell me they had never heard the song of a wood thrush, although I knew the bell-like phrases of this bird had been ringing in their back yards every spring. By suggestion and example, I believe children can be helped to hear the many voices about them. Take time to listen and talk about the voices of the earth and what they mean—the majesty of the voices of thunder, the winds, the sound of surf or flowing streams.

And the voices of living things: No child should grow up unaware of the dawn chorus of the birds in spring. He will never forget the experience of a specially planned early rising and going out in the predawn darkness. The first voices are heard before daybreak. It is easy to pick out these first, solitary singers. Perhaps a few cardinals are uttering their clear, rising whistles, like someone calling a dog. Then the song of a whippoorwill comes on the morning night chant, rhythmic and insistent, sound that is felt almost more than heard. Robins, thrushes, sparrows, jays, vireos add their voices. The chorus picks up volume as more and more robins join in, contributing a fierce and vibrant rhythm of their own. The whole community in the warm medley of voices. In that dawn chorus one hears the thrum of life itself.

There is other living music. I have already promised Roger that we'll take our flashlights this fall and go out into the garden to hunt for the insects that play little fiddles in the grass and among the shrubbery and flower borders. The sound of the insect orchestra swells and throbbs night after night, from midsummer until autumn ends and the frosty nights make the tiny players stiff and numb and, finally the last note is stilled in the long cold. An hour of hunting out the small musicians by flashlight is an adventure any child would love. It gives him a sense of the night's mystery and beauty, and of how alive it is with watchful eyes and little, waiting forms.

The game is to listen, not so much to the full orchestra, as to the separate instruments, and to try to locate the players. Perhaps you are drawn, step by step, to a bush from which comes a sweet, high-pitched, endlessly repeated trill. Finally you trace it to a little creature of palest green, with wings as white and insubstantial as a dandelion fluff, soft and from somewhere along the garden path comes a cheerful, rhythmic chirping, a sound as companionable and continued on page 48.
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homely as a fire crackling on a hearth or a cat's purr. Shifting your light downward young at the top of a cockerel disappearing in to his grisy den.

Most haunting of all is one call the fairy being heard. I have never found him. I'm not sure I want to. His voice—and surely he himself—are so ethereal, so delicate, so otherworldly, that he should remain invisi-

able, as he has through all the nights I have searched for him. It is exactly the sound that should come from the bell held in the hand of the tiniest elf, inexpressibly clear and silvery, so soft, so barely-to-be-heard that you hold your breath as you bring closer to the green glades from which the fairy

chiming comes.

The night is a time, too, to listen for other voices, the calls of bird migrants hurrying northward in spring and southward in au-


tumn. Take your child out on a still October night when there is no wind and find a quiet place away from traffic noises. Then stand very still and listen, projecting your consciousness up into the night sky and the sky above you. Presently your ears will de-

tect tiny wisps of sound—sharp chirps, bib-


lant calls and note. These are the calls of bird migrants, apparently keeping in touch by their calls with others of their kind scattered through the sky. I never hear these calls without a wave of feeling that is com-


densed of many emotions—a sense of lonely distances, a compassionate aware-


ness of small lives controlled and directed by forces beyond volition or denial, a surg-


ing wonder at the sure instinct for route and direction that so far has baffled human efforts to explain it.

If the moon is full and the night skies are clear, the calls of bird migrants, then the way is open for another adventure with your child, if he is old enough to use a tele-


scope or a good pair of binoculars. The


sport of watching migrating birds pass across the face of the moon has become popular and even scientifically important in recent years, and it is as good a way as I know to give an older child a sense of the mystery of migration.

Seal yourself comfortably and focus your glass on the moon. You must learn patience, for unless you are on a well-traveled high-


way of migration you may have to wait many minutes before you are rewarded. In the waiting periods you can study the to-


graphy of the moon, for even a great power reveals enough detail to fascinate a space-conscious child. But sooner or later you should begin to see the birds, lonely travelers in space glimpsed as they pass from darkness into darkness.

I N ALL this I have said little about identi-


ication of the birds, insects, rocks, stars or any other of the living and nonliving things that share this world with us. Of course it is always convenient to give a


name to things that arouse our interest. But that is a separate problem and one that can be solved by any parent who has a reason-


ably observant eye and the price of the vari-


ous excellent handbooks that are available in quite inexpensive editions.

I think the value of the game of identification depends upon how well and how much you play. It becomes an end in itself I count it of little use. It is possible to compile extensive lists of creatures seen and identified for ever once having caught a breath-taking glimpse of the wonder of life. If a child asked me a question that suggested a faint assis-


ance of the mystery behind the arrival of a migrant sandpiper on the beach of an Au-


gust morning I would be far more pleased than by the mere fact that he knew it was a sandpiper and not a plover.

What is the value of preserving and strengthening this sense of awe and wonder, this recognition of something beyond the boundaries of human existence? Is the ex-


ploration of the natural world just a pleasant way to pass the golden hours of childhood or is there something deeper?

I am sure there is something much deeper, something lasting and significant. Those who dwell, as scientists or laymen, among the beauties and mysteries of the earth are never alone or weary of life. Whatever the vacations or concerns of their personal lives, their thoughts can find paths that lead to inner contentment and to renewed interest


in living. Those who contemplate the beauty of the earth find reserves of strength that will endure as long as life lasts. There is symbolic as well as actual beauty in the migration of the birds, the ebb and flow of the tides, the folded bud ready for the spring. There is something infinitely healing in the repeated refinements of nature—the as-


surance that dawn comes after night, and spring after the winter.

I like to remember the distinguished Swedish oceanographer, Otto Pettersson, who died a few years ago at the age of 93, in full possession of his keen mental powers. His son, also world-famous in ocean-


ography, has related in a recent book how intensely his father enjoyed every new experience, every new discovery concerning the world about him.

"He was an incurable romantic," the son wrote, "intensely in love with life and with the wonders of the cosmos." When he re-


alized he had not much longer to enjoy the earthly scene, Otto Pettersson said to his son: "What will sustain me in my last mo-


ments is an infinite curiosity as to what is to follow."

The lasting pleasures of contact with the natural world are not reserved for such sci-


entists but are available to anyone who will place himself under the influence of earth, sea and sky and take their amazing life. In my mail recently was a letter that bore eloquent testimony to the lifelong durability of a simple personal experience from a reader who asked advice on choosing a seacoast spot for a vacation, a place wild enough that she might explore the beaches unspoiled by civilization, exploring that world that is old but ever new.

Regrettfully she had excluded the rugged northern shores. She had loved the shore all her life, she said, but climbing over the rocks of Maine might be difficult, for an eighty-nine-year-old would soon arrive. As I put down her letter I was warmed by the fires of wonder and amazement that still burn brightly in her youthful mind and spirit, just as they must have done fourscore years ago. [THE END]

The East Is Home

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puppy. One has to get used to a more reti-


ent gesture than one encounters in the South or the West. You may find the Ver-


mont farmer taciturn to the point of silence if all that you're looking for. But get stuck in the snow some bitte r and he'll har-


ness a team, pull you out of a drift and make you a pot of hot coffee without asking to


look at your wallet.

Ours is not a spectacular environment. Our mountains do not tower very high, our chasms do not cut deep. We swim in a more moderate ocean, drive smaller cars on less endless roads. We do not wear slacks to the village or bikinis on many of the beaches. If we like hamburgers rare, we do not care for them raw. Our most persistent symbols are still our quiet elms, our lilac-shaded churchyards.

There is something very pleasant about accepting a natural background. I used to wonder why even the most faithful copy of an old house was so much less charming than the newly-eyes fine told me it is because the latter has warped a little with age. All its lines curve a bit to conform to the weather, and it does not quite peacefully. It is ever so slightly, windows lean just faintly toward the landscape. The house has stopped doing battle with its surroundings and has become a part of it.

This grace of form explains why many an easterner would rather spend his money on remodeling a dilapidated farmhouse into a residence than on building a new one at less expense. It accounts for what is most appealing about this place. This is a grown-up place. Here is the warmth of home.

For Phyllis McGinley's last word on the East, turn to page 84