INFLATABLE DREAMS

BY PAUL GROSS

One tangible benefit of mat surfing is portability. Deflated and roised tightly, they take up about the same amount of the same amount of the same and the same amount of the same amount of the same amount of the same amount of the same and the same amount of t



ECAUSE WE HAVE so many kinds of breaks up here in the Northwest—jetty peaks, sandbar beach breaks, reefs, and oven some point surf—lve had the opportunity to did mats in all different sizes and shapes of waves. I can't count the number of different designs that I've built and ridden—often with great success in one type of surf while a definite failure in others; I've gone through phases of having something vaguely dissimilar for every potential wave shape and surface texture. It sort of seems foolish to me how as I look kack on it, but I can't been to

DALE SOLOMONSON to me now as I look back on it, but I can't begin to place a value on the things I've experienced and learned. My only real regret is the lack of photographs taken during the years I surfed and experimented on a daily basis. I would love to have documentation of the evolution of my mats.

One of the most profound characteristics of the

mats—and it's accombated in the better ones—is the surprising tendency to drive into steep sections and accelerate through them. Most mats behave this way, the lightest and most flexible being the most likely to react as if they had a life of their own. Another great feature of the mat is its ability to ride over white water sections. All of this makes the overall speed potential tremendous—a fact that's sometimes hard for stand-up surfers to swallow. The seen purys come ashore just to watch a mat being surfed, because they were so surprised and impressed with the performance. Lear memember answering questions like "Why is the vake so low in the water?" or, "How can that thing go a feat?" There's noting and suiting lot it?" or "How did you go around that section? You didn't do anything." Mat surfing is a lot like elider frition. There's a rone and suitiether in that hards hard to see the surface of the surfa

I've constructed rafts out of almost every artipht material that could be bonded, Mats made of naugatyde were really interesting. They were supple and flexed nicely when they were new, but as the wily resirs I used to assemble them hardened over time, they became stiffer and less responsive. They were also fairly heavy, which was a disadvantage in small vawes, but gave them a solid feel in big waves. In a lot of ways the rylon mats that Pauf, Seorpe, and I developed were the end of the road for my mat surfing. They worked so well that the "journey" aspect of designing and riding mats came to an end.

I can't say enough about mats. I marvel at their lowly appearance, and yet I'm struck by the sophistication of their construction and their incredible performance. It's an enigma that's challenging to try to share with other surfers.

Dale's portable mat factory.



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OST SURFERS OVER 40 have ridden surf mats, but the experience was usually limited to riding but the experience was usually limited to riding swim first. The first mat to cross over into the swim first. The first mat to cross over into the area of hard-core surfing was the Converse Hodgeman. These sturdy, red, white, and blue mats featured a coarse canvas exterior backed by a him rubber interior living. Because there were no still, heavy end caps, the front end of the Converse was easy to grab hold of and control. This unique feature led to the Greenough style of mat riding, one he often described as Two fasfilis of canvas." With one hand riding along each rail, George was able to canve and bank the Converses like a surfboard—rather than pivot back and forth while hanging on to a nose rope, which was the style encouraged by rental mats.

Conventional wisdom dictates that the harder a mat is inflated, the better it works. Since that was absolutely true for rental mats, it became the commonly accepted dogma. For





in to play. Because Greenough spent so much time on his mats (and because he's inclined to use his belongings to their last dving day) every one of his Converses were as limp as dish rags before he retired them. And he found that when he christened a new mat, the performance would pale in comparison to his old one. For George, breaking in a new mat became a task to endure, like breaking in a new pair of jeans. He reasoned that the older, softer mats were faster because they conformed to the shape of the wave, and he pushed this concept a step

further by deliberately riding them at a lower inflation level. Once he learned to control the softer mats' tendency to slide out in critical situations (by squeezing the front end to firm up the rail shape) he could adjust a mat's handling characteristics as he rode, skimming or holding in at will.

This revelation was the key to the future of mat surfing, because in the late-'70s-when Boogies displaced mat riding and the Converse Hodgeman went out of production-the



HUGHES

e stoolu be unity when it is big and bumpy! George always seems to have that effect on you. Most of which he does is really complex and sophisticated, but some of it is so simple you just you. "Why didn't lihink of that?" We went out and got Converse mats like George used and rode them for years is San Diego when the conditions were right. When they slopped making Converses in the mid-70s, we just sort of lost interest. We tried the cheap drug store mats, but they just when they were some some properties.

oldn't nde like the Coiverses, and they didn't hold up at all.

About ten years after I gave up on mat riding, I got this weird nylow mat in the mail from 160Y Sullaway. It was dark blue, made of a really him, leikelbei nylon material and it welpide about 12 ounces. Toby sort of owed me a board, but asked me to try this mat instead. Teligured 17 gave try I vars willing in Santa Barbrar, so I walted for a good-sized day and took it out at Hendry's Beach. On the very first wave I straightened out as at closes out, and the mat skimmed so far out into the flat vaster that the lip landed completely behind the straight of the straight o

So that's how it started. I love the challenge of making these things po in really good waves, and I only the crummy days as well. Actually, I am taking a bit of undue credit here, because you don't make the mats go—they go on their own, and that's sort of the secret of riding them. They're inherently very frictionless and tast. My first day I was wearing a shorty wetsuit and the non-skild carwas on the dock was starting to Irritate my arms. So I flipped it over and tried to lay on the bottom, and I couldn't even hold on. A bar of soap is far less leushe.

Oddly enough, the more deflated a mat is (to a point) the faster if goes. Paul and George both told me that partially deflated is faster, while fully inflated holds in better. I didn't believe them until I tried it myself. When you're sailing down the line you can feel the rear third of the mat collapsing into a perfect foil, seeking the optimal shape to fit the wave, while the front two-thirds stays firm and easy to control. The great thing about mats is that they skim so well and your center of gravity is so low, they carry their momentum through huge flat spots. There's nothing like that feeling. If the swell has a little bit of power behind it, you can string together one distant section after another and make a sloppy wave into an all-time ride. You're going faster than you would on a surfboard, and your face is only a few inches above the water, so the sensation of speed is unbelievable. For some reason, bumpy, crinkly waves really make the mats fly. They seem to work best in point surf. I don't know about these things in coral reef setups. You end up straightening off at the end of rides a lot, and in coral that could be pretty gnarly. Nias looks incredible. That's one place I'd like to unwind one of these things

A lot of people paddle up to me and say, "I used to ride one of those things." And I always reply, "Yeah? Well, it wasn't quite like this one!" If I win the Lotto, I'm going to invest in nylon air mats and turn everybody else on!



search for a new high-performance mat was oriented toward plability rather than dumbility Cheap Tatwan ratio, which had been dismissed as junk in the '60s, were seen through fresh eyes. Rip Curl began to import a mait from Asia in the early '80s—enter that was manufactured with crude handles and fins 'for surfing.' George and his disciples gleefully tone off these encumbrances before any new mat even got wet.

The Rip Curls were shorter and narrower than the Convexe design, and they moved through the water with less effort: a definite improvement. A second, more subtle design factor was also explicted. While the Converve was made of a thin layer of canvas backed by a much thicker rubber lining, after miding the Rip Curl was made of a thin layer of canvas backed by a much thicker rubber lining. After miding the Rip Curl mat for about a year, George carried out one of his classic, improvised design experiments. We were out at Rincon one rainy afternoon, and for no apparant reason he santed tearing the threadbare canvas off the bottom of his mat, leaving only the thick rubber imme lining. He rode a few waves without saying anything, then paddled up to me, slid off his mat, showed it in my direction and said, "Try this?".

The hastily modified Rip Curi felt like it was on ball bearings. George started calling them Peelers, and they opened up the next phase of mat riding. Brand new Rip Curls now had to endure two indignities before they were ridden: first the first and handles were removed, then the bottom canwas was room off. The down side of this second modification was that



what the Peelers gained in performance, they lost in durability, the slightest contact between the all-tubbe between and a rock or a bornacle was terminal. George became saddled with the task of transporting stacks of Rip Curls from Australia to California to keep our stack fresh, and the process began to resemble a smuggling operation. If he was due to return to the States, phone calls would begin to fire back and forth; prices, quantities, and delivery times being the topic of conversation.

Unbeknowns to us, a surfer up in Oregon named Dule Solomonson had been following a more sophisticated path. He had been making his own mast from scratch for years, utilizing materials like vinyl, sheet rubber, and naugahyde. His results were mixed, but in the process he had developed into the most knowledgable mat builder in the world. Occasionally he would make calls down to either George or It to talk shop, as if we knew anything about making mats. At one point, I made the comment to him that strong blable mats sement to work the best, maybe we should find some kind of thin, heat-scalable rylon and make mats out of that About a month later, the UPS man arreved at my front door with a package that changed our lives.

Dale had found a remnant length of a military-spec nyfon fabric that was exactly what we had imagined, and he had modified a soldering iron to use as a heat welding device. He then constructed a copy of the original Converse Hodgeman mat out of the nylon. (If you think that was easy, cut open an old mat and have a look inside.) It was February and I guess he was snowed in for the winter, so he gove us first crack at it. The day the first pylon mat arrived coincided with the first hours of the El Nino swell of 1983. The surf was 6 to 8 feet and building. I gave George news of the delivery, and he lead-footed it down to my house in Carpnettera in his old cop car and we cracked it. Dale's mat was so fast, George commented that even if we only got two or three go outs on a nylon mas belone it dismitgrated, the performance would be worth the trouble of constantly having to make new or the surface of the surface would be worth the trouble of constantly having to make new or the surface was sufficient to make new or the surface of the surface was sufficient to the surface of the surface of

While it seemed like our problems were solved. they were just beginning. The heat sealable nylon material Dale had used was extremely difficult to find in production, and I spent the spring of '83 sending out query letters and material samples to hundreds of fabric manufacturers. It took four months to locate a supplier. Then the next reality hit. The material ran \$9 a yard, and the minimum quantity was a thousand yards. What had started out so many years before as a cheap, brainless way to go surfing had evolved into the polar opposite. (In the last few years of his life, Marshal McCluhan theorized that technology had a way of "flipping" an object's original intention. If I hadn't experienced the nylon mats, I would've thought he was out of his mind.)

FEFUNIV THING about mats is that they're the assest thing to surf on a basic beginner beel, but they re the interest thing to surf on a basic beginner beel, but they re the interest thing to surf on a derived level. It alses for pass or or the surface of the surface of the surface properties, before you can drive them anywhere near their potential. I've been riding mats day-in and day-out for over 40 years, and I'm still acting been properties of the surface of the s

GEORGE GREENOUGH

time you make a power run into the shore pound. The original Converse canvas masts we used in the '60s and early-'70s weren't cheap (they were about 40 bucks, U.S.) but they were durable and readily available. We never really had to think about them, and that's what made them attractive. If you had a shorty westul. a pair of fins, and a mat, you were ready for just about anything. You could get those buttle down-the line at Rincon. There was another.

things to just hurtle down-the-line at Rincon. There was another unbelievable mat made in Australia during the late '60s called The New Curve To Surf, and it had rocker running through the length of it. That thing was easy to turn and really held into square sections.

Classic mat adventures are nothing like other kinds of surf stories. I was riding Pipeline on a mat in 1967. It was about four or five feet. My Converse was going well and I was pretty stoked. Then this one wave looms up out of the northwest. It was three times bigger than anything else that had come through that day and it was thick. I scratched for the horizon, but ended up right in the impact zone. The lip landed about five feet in front of me. I tried to roll it. which works well on a mat because you can really get your arms and legs around the thing and put a death grip on it. I got tossed around pretty good, and when I finally came up, my mat was gone. both my fins were gone, and my trunks were gone. I was out in the middle of the ocean, treading water with nothing on. Then a few seconds later my mat pops up right next to me. Then one fin. Then the other. Then my trunks slowly gurgled to the surface. All the energy in the wave had gone straight down, then had rebounded straight back up. I put my trunks and fins back on, climbed on the mat and paddled back into where the other sets were breaking. There were no other waves like that all afternoon

Another time I was out at Sunset, shocking 35mm water footage for filly detended by Member of jot caught inside, I always let the camera go instead of the mat because it was easy to catch the next wave and ride over to where the camera was floating, then goth I and pacide back out. I had this technique to keep from getting gothed give the falls once I et the camera go. AS I was padding a sucked over the falls once I et the camera go. AS I was padding the light of the state of the s

We used to get six or eight mat riders out at Rincon on windly spring afternoons, and there was no problem riding a wave with that many people on it. The knuckle of white water would catch whoever was in the back and hurtle them forward. They would bonnoe off everylody lets like a pinall, then the next guy in the back would cataput forward. Two hundred people could easily surf Rincon without it being crowded if they were all on mats.

There aren't many hard-over mat riders left anymore. Less than a dozen in California, a few more than that in Australia, Most kids start out on Boogles, and there aren't any good mats being made. Plus it's way too crowded to learn how to nide a mat in point surf. it's sort of become a lots art. The 50s were a unique period, and we never would've learned now to ride mats so well it'we hadn't had the opportunity to get them into good surf without a lot of people.





Unliked the fabric company into a somewhat lesser quantity, and they piggs-hacked it not someone else's larger order. After a few crude attempts at mat making, we realized that the shape of the mat was a critical as materials I ended up making over 50 prototypes to sort out the possibilities. This process actually moved forward at a rapad pace. A new mat could be conceived, drawn out, and welded up in about five hours. If there was any surf at all, a new mat could be ridden in the morring, and a solidified version made that day and surfed in the late afternoon. Then a third mat could be made that evening and ridden the next morring. This intense frequency only took place on a handful of occasions, but when you combine a short construction turnavound with feedback from George-moe of the most talented and enthusiastic surfers of the treatment century—a lot took place in a short period of time.

What we learned was that the ideal number of pontoons for a mat was three rather than the traditional four, that a stabilizing 1-beam in the center of the three main pomoons was needed to control the thickness, and that a thicker mat was faster, and easier to control than a thin one. (Also, the "traditional" flao/straight/square mat configuration was by far the most successful, presumably because the shape of the wave created the right rocker and outline curves as needed.)



The key to mat surfing is that they can be tuned, compressed, and contorted as you ride. Greenough "builds" a rail suitable for off-the-top and bottom turns by squeezing air toward the inside rail. Takes a while to learn, but once you have it dialed the possibilities open up.



Once those parameters were established, I spent several months working with a machine shop developing a welding machine that bonded the seams and I-beams with more consistency. Several dozen more prototypes of varying dimensions were made, and we surfed those mast for almost a year before the ideal combination of elements begun to emerge. Even after the best shape was identified, I continued to try minor variations. However, there seemed to be a synergy to that one shape that transcended the size of the wave or the rader. And George's original assumption (that the nylon mast sould only last a few days) turned out to be dead wrong, Individual units have survived as many as five years of constant use.

Once the design and construction of the must was established, I started making them for people under the name Fourth Gear Flyer. Unlike conventional boards, mats were clean, quiet, and consistent to construct. Feverything about them was "green." (Even the feeling you had after a good suif was humble and connected.) Commercializing the idea was never my original intention, but wasth so much invested in the material, a welding machine taking up space in our house, and people in Santa Berbara and Ausstralia saking about them.

Unfortunately, all mats have a way of looking the same.

They reside in surfing's de-journalized zone, net given to our established appearance standards. The old reality of dirt-cheap surf rails Journal dange in people's minds, and the \$\$50 price tag (which amounted to \$10 hr. labor) amounted to sticker shock. Offshore mass production was the obvious solution, but I never had the capital or the contildence to go in that direction. The bottom line was that the role surf mats played in our culture was rotted in the beach rental phenomenon of the '60s, and the cost and performance of the Fourth Gear Flyer was in conflict with that heritage. A litany of other headaches rain the gature from people who had never even ridden one clamoring for handles, leashes, and fins, to finding out that inflatable surf-craft were binanced along LA. county beaches.

In the end, my once massive supply of fabric ran out and the market was too limited to justify another large investment. I even had trouble selling the last batch of Fourth Gear Flyers for material cost. Despite the commercial difficulties, the mylon mass were an unqualified success. By the time the '80s had rolled around, I was jaded, convinced that there was no magic left in surfing. The nylon mast showed me how pointless that kind of thinking could be. My only regret is that after twenty years and hundreds of hours on the phone, I've still never met Dale Solumonson face to face! 8