

A young girl and boy are splashing in water. The girl is in the foreground, wearing a blue swimsuit, with a large green water balloon behind her. The boy is in the background, wearing a black swimsuit. The water is splashing around them, and the sky is blue with white clouds.

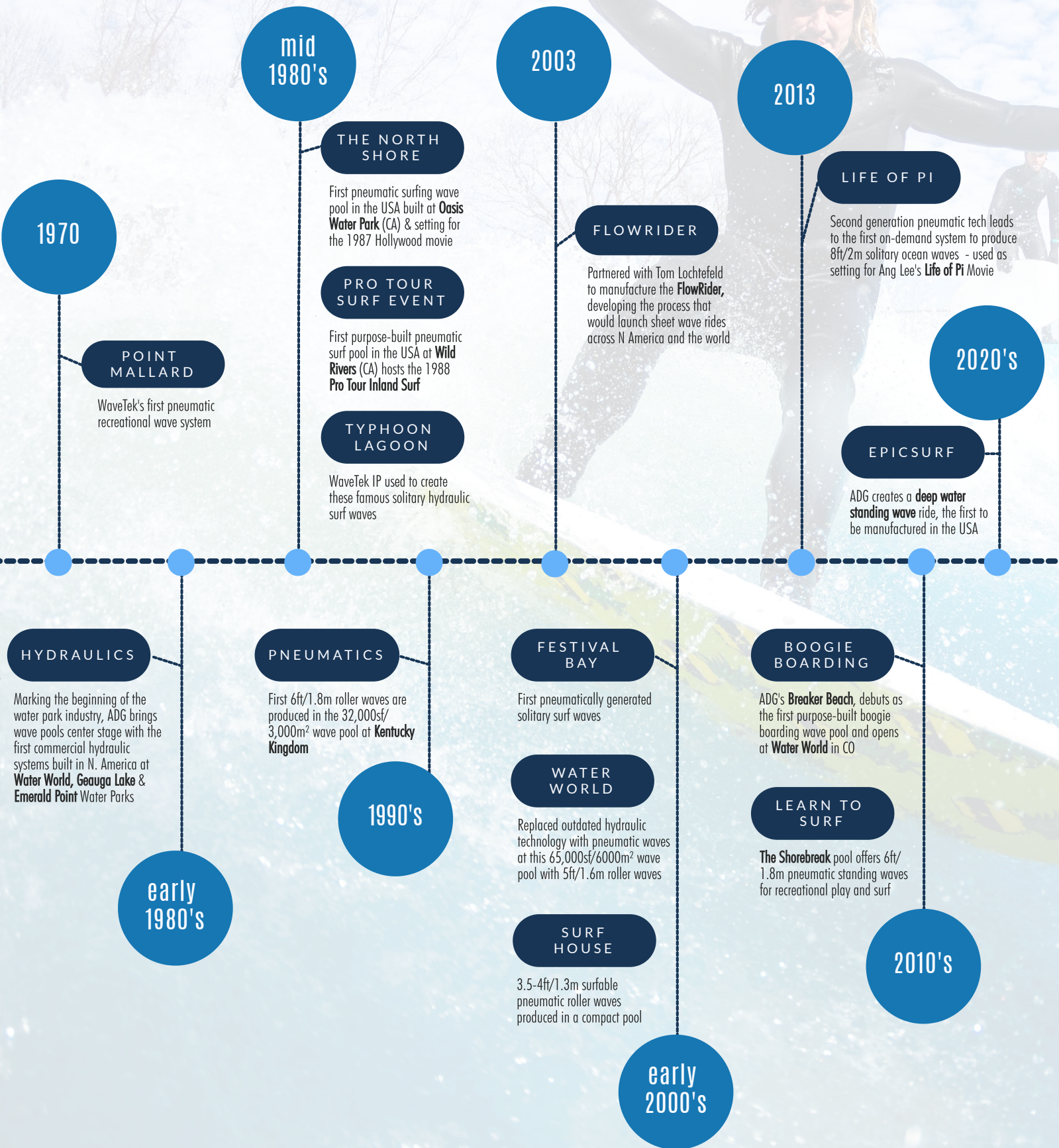
a long history of
**MAKING
WAVES**

ADG WAVES
powered by WAVETEK[®]

ADG WAVES

powered by WAVETEK®

for over 50 years



EVOLUTION IN WAVES

ADG's Long History and Lasting Impact on Today's Advancements in Wave Technology – from recreation to surf and everything in between

WITH 50 YEARS AND 500+ WAVE POOLS AND SPECIALTY WAVE SYSTEMS TO THEIR CREDIT, *ADG leads the way in waves having successfully developed, tested, and implemented more technological advancements to wave systems than any other company in the industry – from recreational wave pools and rivers, to stationary sheet waves and deep water waves, to surf pools and specialty wave systems for aquariums, rescue training, motion pictures and more – ADG Waves, powered by their exclusive WaveTek® technology, is the go-to system for every wave application.*

At the Forefront – The Early Years

At the forefront of wave pool technology ADG was on the scene, creating the first set of hydraulic surf pools in the early 1980's at *Water World*, *Geauga Lake*, and *Emerald Point* parks. The IP that they developed for those pools is also featured on *Disney's Typhoon Lagoon*, an iconic wave pool that showcased this early entry technology into man-made surfable waves. In fact, their once patented high-head/low-volume technology is the backbone for many of the large wave systems found throughout the Asian market today.

Throughout the next decades what followed was a dedicated drive to advance the technology behind producing waves for commercial use. By combining WaveTek's patented technology with ADG's expertise in manufacturing, design, and construction, what followed were groundbreaking innovations that earmarked a new growth in the recreational wave market.

Leading the Way – Emerging Technologies

As wave shape and quality began to take center stage, ADG was first on the scene with pneumatic wave systems, proving that they could produce large, consistent waves that dispersed at steady intervals and hold their shape through the length of the pool.

These systems were the driving engine producing the first surfable pneumatic wave pools in the 1980's at some of the most renowned venues of the day including *Oasis Point*, the setting for Hollywood's surf classic, *The North Shore*, and *Wild Rivers* in CA, the host of the 1988 *Pro Inland Surf Tour*. In the early 1990's they produced their second-generation pneumatic system that they deployed at *Festival Bay*, a full-scale model that provided proof-of-concept for successful, purpose-built pneumatic surf technology.

Forging Ahead – Innovation & Advancement

Many of today's wave system features considered "standards" within the industry were developed by ADG who was pivotal in bringing to market innovations that included all stainless-steel construction, multiple wave pattern technologies, and specialty wave chamber arrangements for low energy usage.

ADG also became the first, and only company, to offer a complete wave pool package – from the planning & design of the pools to the engineering and manufacturing of the waves, to building, installing, and servicing the equipment – making wave pools a commercially viable option, and helping usher in the age of the water park. And since the 1980's ADG has designed, built and/or provided wave generation systems to over 90% of the recreational wave pools across N. America.

Among their long list of innovative firsts, some notable mentions include the world's first pre-programmable variable wave pattern application for wave pools, introduction of waves to rivers, cost-effective staggered caisson pneumatic system configurations, and the first 6' (1.8m) high pneumatic roller waves for recreational use.

Branching Out – Specialty Wave Applications & The Cross-Over Effect

When it comes to R&D and innovative ways to produce waves, ADG has established itself as the go-to system for a variety of applications. In the world of zoos & aquariums, ADG has developed a variety of wave system options that support animal and plant life ecosystems, from real-world ocean simulations to deep-water vertical wave propagation. Their work is featured at premiere locations around the world including *The Melbourne Zoo*, *Ripley's Aquariums*, *The Georgia Aquarium*, and *The National Zoo* in Washington DC.

Another noteworthy innovation includes an application of the first remote-mounted wave system. Developed for a pinniped exhibit at *Sea World* it was designed to create a better environment for the animals, producing less noise and no equipment in the water – a system that would later reinvent itself for recreational use in the early 2000's with the launch of ADG's *Twin Tides™* wave pool.

When it comes to large waves needed to “perform” on demand, the Hollywood motion picture industry relies on ADG to recreate realistic ocean settings for their films. Their innovative work can be seen in feature films such as *The Guardian* – where they built the first beachless wave pool ever made, *Master & Commander* – where they designed a moveable wave generator for a 3-acre lagoon with a zero-horizon edge, and *Life of Pi*, where they designed the program and equipment to customize wave shape and angle on waves up to 8' (2.4m), providing on-demand capabilities for directly altering the wave itself. ADG also introduced its second-generation advancement on their pneumatic system that has resulted in the deployment of a high-efficiency surf technology.

The R&D developed for these applications led to the advancement of unique system configurations that they applied to recreational wave and surf pools, such as their popular large-scale *Shorebreak™* and *OceanSwell™* wave systems capable of producing large roller waves for boogie boarding and learn-to-surf.

You will also find ADG Waves operating in a multitude of other applications, including rescue training facilities for the *US Coast Guard*, and highlighted in distinctive large fountain displays in locations such as *SeaWorld* and the *United States National Oceanic and Atmospheric Building*.

Continuing the Evolution – the Surfing Phenomenon Takes Off

ADG's advancements in waves has led to many new and emerging technologies – from standing and sheet wave attractions, to surf pools and rivers – that have quickly become the industry standard for use in recreational and surfing applications.

The stationary surf wave market took off in 2003, when ADG partnered with Tom Lochtefeld to transform his idea of a stationary surfable wave and make it a commercially viable attraction. From that, *FlowRider*® was born – a ride with over 225 installations worldwide, 130+ of which have been designed, built, and installed by ADG in indoor, outdoor and resort waterparks across North America.

Surf parks today also benefit from ADG's early research and development of advanced pneumatic systems which provide more control of the wave generator, delivering reliable consistency in wave formation and offers a solution that requires no equipment in the water.

Where We Go from Here – The Wave of the Future

Over the past decade ADG Waves have expanded internationally with growth in Asia, the Middle East, the Philippines, and Australia. Their WaveTek® technology can be found in a variety of recreational projects that run the gamut from large wave pools of all shapes and sizes, to shallow kid's pools and beachless pools, to waves for rivers, specialty boogie boarding and surf pools, pools with no equipment in the water, and pools with remotely located wave systems, ideal for when you are dealing with space limitations.

ADG's latest surf wave project under works is taking place in Australia. With a planned opening for their 2021 summer season, this purpose-built boogie-boarding and "learn-to-surf" pool is the first of its kind in the southern hemisphere delivering breaking interchangeable waves of 1.2m. in a 55-meter compact pool.

With the dramatic growth of surf pools and parks, ADG is building on their already proven success in the field of surfable wave applications which today includes their *ShoreBreak*™ recreational surf pool, *Breaker Beach*™ recreational boogie-boarding pool, *TidalWave*™ River, *FlowRider* sheet wave attraction, and their soon-to-be-released deep water surf wave ride, which they are promising will be epic!

For over 50 years ADG has been delivering consistently reliable and groundbreaking innovations in the world of waves. The future promises nothing less.

Surfers find an oasis in Palm Springs



For one weekend, locals find waves better in desert than at the beach

By FRED SWEGLES
Sun/Post Staff Writer

PALM SPRINGS — The Professional Surfing Association of America got the last laugh Sunday. Skeptics who said it was dumb to hold a pro/am surf contest on artificial waves in the middle of the desert had to eat their words.

The waves were better in Palm Springs this past weekend than they were along the Orange County coast.

While the Western Surfing Association had to cancel an amateur contest at San Onofre for lack of surf, at Palm Springs micro-barrels a foot or two high rolled onto a concrete shore with machine-like precision, every two seconds, all weekend long.

They weren't picture-pretty. They had very little punch. About all that 120 PSAA competitors from California, Florida, Hawaii and Japan could do was struggle to snap off as many turns as possible during the few seconds the wave had any oomph at all.

So paltry were the petering-out waves nearing shore that surfers were forced to flail back and forth, doing whatever they could to impress the judges for an extra point or two.

Contest announcer Peter Townend

coined a new surfing term from this: he proclaimed the newly invented desperation maneuver the "Squiggly Diggly."

Jokes aside, the PSAA probably would have had to cancel the weekend contest had it been scheduled along the Southern California coast instead of at Oasis Waterpark in Palm Springs.

And if you asked 23-year-old pro Jim Hogan of Capistrano Beach how he liked the wave pool, he certainly had no complaints.

Hogan, a 120-pound bundle of supercharged energy, turned in a supercharged performance on the mini-waves to emerge the winner of the first Budweiser Desert Classic.

Mike Parsons of South Laguna placed a close second, followed by Paul Barr of Carlsbad and Mike Lambresi of Oceanside. George Hulse of Capistrano Beach was top amateur in the pro/am contest, placing fifth.

Hogan has entered only two of five contests on the 1987 PSAA tour and has won them both. He captured the Body Glove Winter Pro on Jan. 25 at Carlsbad, then began training furiously the past two weeks, riding the tiniest waves he could find to prepare for the wave pool.

Last Wednesday Hogan described himself as "very hungry to win this event," and he wasn't kidding. Sunday afternoon he disclosed that he had starved himself all week long, trying to keep his weight down so he could perform better on weak waves, especially in a freshwater pool where the water lacks the buoyancy of ocean saltwater.

That starvation diet almost took its toll at the end. "It was very tiring," Hogan described the 10-wave championship heat, though spectators and judges wouldn't have known it by the way he surfed. "A pool is a lot more tiring than the ocean. You're constantly paddling... you have a wave coming every two seconds."

Many spectators thought Parsons won the contest when, near the end of the championship heat, Hogan committed a blunder. Hogan fell from his board, but the board flew up and he managed to catch it and recover, continuing to ride the wave.

Parsons surfed consistently well during the final. But Hogan's first seven rides, which he rode with electric intensity, evidently were too

Snow-capped mountains form the backdrop as Jim Hogan cranks a cutback at the Palm Springs Oasis Waterpark.



Intensity shows on Hogan's face as he powers off top of machine-produced wave.

George Hulse was the top amateur in the pro/am event. Fred Swegles Photos

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The following are clippings from San Clemente's Daily Sun-Post in 1987 and 1988 that showcase California surfing's first go at pro-am contests on inland waves — made by ADG.

HISTORY OF SURFING

1987: Inland Pro Surf Event at Oasis Park in Palm Springs

While perhaps a far cry from the 6' waves that barrel down our surf pools of today, this first iteration of ADG's pneumatic WaveTek® surf system proved worthy of a surfing champion — and served as proof-of-concept that surfing in man-made wave pools was indeed a precursor for the future.

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"And if you asked the 23 years old Jim Hogan of Capistrano Beach how he liked the wave pool, he certainly had no complaints."

HISTORY OF SURFING

1988: Inland Pro Surf Event at Wild Rivers in Irvine, CA

While the waves might have increased in size the surfers who walked away with the top prizes seemed to have gotten smaller, and younger. Leading the pack – none other than 16-year-old **Kelly Slater** who beat out veteran pro Jim Hogan, second-ranked surfer overall and 1987's Inland Pro Surf event champion



Jim Hogan throws a fan in wave pool action, but it wasn't enough to retain inland title.

Lightweights take over wave pool

By FRED SWEGLES
Sun/Post Staff Writer

IRVINE — When you hold a national pro/am surf contest in an artificial wave pool, anything can happen.

And it did Saturday, when Wild Rivers aquatics park hosted its first bigtime surf contest, the \$20,000 Free Style Pro/Am.

Almost no one would have guessed when the three-day contest began on Thursday that none of the Professional Surfing Association of America's top surfers would be around for the finals.

Instead, the four finalists looked more like a high school surf team — a crew of lightweights averaging little over five feet tall and 100 pounds.

They were anything but lightweight when it came to surfing talent.

Leading the way was 16-year-old Kelly Slater, a four-time U.S. amateur boys' surfing champion from Cocoa Beach, Fla., who put on a supercharged performance in the finals to capture his first victory in a national pro/am competition.

Slater used his compact 5-foot-2, 105-pound frame to maximum advantage in Wild Rivers' small machine-made waves, holding off 18-year-old Todd Miller of Newport Beach, 18-year-old Steve Pugh of Seal Beach and 17-year-old Chris Brown of Santa Barbara.

The youth and size of the four finalists fueled debate over whether wave pools are really a good arena for surf contests. Some observers argued Saturday that the small swells generated by a wave machine are an advantage for small competitors. Other observers insisted that wave pools dish out the same wave to everybody — an equal chance to win.

"I think it's great," grinned Slater, when asked how he felt about it. "I'm just happy I made it through. It was pretty fun." It was especially fun since Slater,

who flew out to the West Coast just for the contest, won \$5,000. This was his first time that Slater, an internationally acclaimed amateur who has won pro/ams in Florida, has been able to accept money under a new rule that allows amateur surfing associations to place a member surfer's earnings into a trust fund.

Saturday's victory adds a novel new title to Slater's list of accomplishments: he is the new U.S. inland surfing champion. No other inland wave pool contests are scheduled on the 1988 U.S. pro/am tour, so Wild Rivers was it.

Handing over the title of U.S. inland champion to Slater is 24-year-old Jim Hogan of San Clemente, a veteran national and international pro who was the PSAA's second-ranked surfer overall last year.

Hogan won the PSAA's only wave pool event of 1987 at Palm Springs, but he had to settle for a tie for ninth place Saturday and was clearly disappointed.

"I surfed good and I still lost," he said.

The crucial point came when Hogan pro placed second to Slater in a close quarterfinal heat Hogan felt he had won. Slater fell on his first wave of the heat but recovered and stormed back to win the four-man heat.

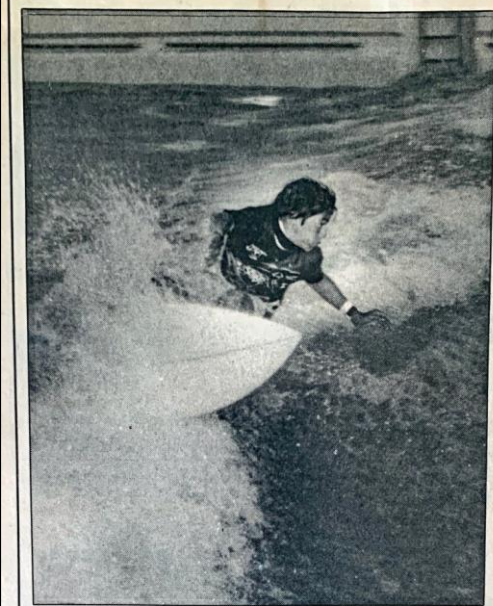
"I don't know," Hogan shrugged. "I didn't make any mistakes, and I surfed good."

The judges' decision sent Slater, in first place, to the semifinals while second place Hogan was consigned to a consolation heat, where he was ousted.

Earlier on Saturday, the other top seed in the Free Style Pro/Am, 1987 PSAA champion Mike Lambresi of Carlsbad, was also eliminated in a heat in which he seemingly was on fire. Lambresi's loss in the highly contested heat left him in 17th place.

— See SURFING, 10

Fred Swegles Photo



Kelly Slater slams off the top of wave at Wild Rivers.

Fred Swegles Photo

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