



Emerald

M A G A Z I N E

Glassblowing for a Global Audience

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International Glass Artist Dale Chihuly p.10*

Emerald Glass Gallery

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first boutique gallery for smokeable glass in the
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Editor



Safety Meeting in Amsterdam

Dear Reader,

Thank you for picking up the November issue of the *Emerald Magazine*. This month we bring you the Glass Edition.

Glass is both rich and versatile with a colorful history. The material plays an important role in our past, present and future. Once used as a form of currency, glass now surrounds us in our everyday lives.

Glass brings us beauty, and it brings us function. Glass has got a story to tell, and so do the people behind each piece.

Glassblowers are artists that continue to push boundaries and refine their centuries-old skill sets, breathing new life into an ancient art form.

Like its history, glass and those who work with it, come in many forms. From the artisan to the international – we dive into the life, work and inspiration of regional and global artists.

Famous glass artists like Dale Chihuly wow millions with his distinct glass art forms. He has opened his work to the public in multiple states and countries such as Seattle, Rome, and even Jerusalem. Chihuly's love for glass transforms how we see standard objects, creating an international phenomenon that has paved the way for artists around the world.

Where some have found success in the world of glass, it has shattered for others.

The national case involving Tommy Chong still echoes in the cannabis community today. Operation Pipe Dreams was the name given to a nationwide raid on 55 glassblowers, including Humboldt County's own glass shop, 101 North. Hear Jason Vrbas's story, former owner of 101 North and present owner of Glass House in Arcata, California, and others as we take you on a journey through the glass industry.

Cheers,
Christina DeGiovanni
Publisher



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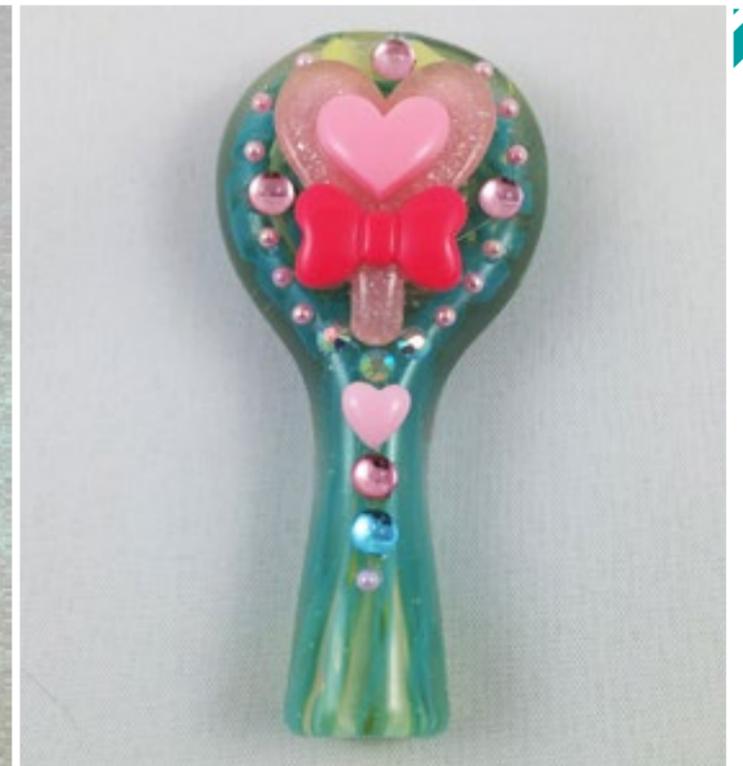
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THE
HISTORY
OF GLASS
BLOWING

NEW YORK

PRETTY PIPES

MACKENZIE BROTZMAN



In Buffalo, New York, Angela Vasquez of Pretty Pipes Shoppe creates pipes that are more fantasy than reality.

The Etsy shop, run by Angela and her boyfriend, focuses on high quality glass pipes that give an ethereal and whimsical experience to cannabis smoking.

The goal, says Angela, is to bring magic into her customer's lives.

Founded in June of 2015, Pretty Pipes is sold exclusively online, making their collection of pipes available across the country.

Angela started Pretty Pipes as a creative outlet. "I've always been into crafting, and I really wanted to branch into the realm of pipes," she says of her passion for working with glass.

Through her company, Angela is able to create and control all aspects of her art, like choosing the specific glass to use and creating designs. Pretty Pipes does not blow their

own pipes, but they have a hand in every aspect of the creative process. "As far as the glassblowing process, while we don't blow them ourselves we only choose distributors with the best quality glass," Angela says. "Sturdy and heat resistant glass is very important to us. Quality of the glass is key."

Pretty Pipes currently works with an array of glass distributors, but their end goal is to work with local glass blowers in New York. Angela says working with glass has been a learning experience, and the quality of Pretty Pipes continues to increase. "The form of my pipes has drastically changed since we started. As we continue to grow, the change will continue as well," Angela says. "Our quality of glass is constantly getting better, and we constantly seek out the best glass we can find."

Clear to anyone visiting Pretty Pipes Shoppe, fantasy is the name of the game. Pipes and grinders with an ethereal feminine feel cover their website. The inspiration, says Angela,

came from her whimsical, ultra-girly taste.

"I looked all over for pipes, and I hadn't seen anything that I liked and I figured other women felt the same," she adds. "I started to design and create pipes that I would want, and [that] resonated with [my customers]."

Pretty pipes has a style to please everyone's taste, such as a Swarovski Encrusted RingPop Pipe, a Cake Grinder with Sprinkles, and a Cherry or Pikachu Pokemon Pipe. The details and intricacies of the glasswork sets the pipes a part as works of art.

"We are not just creating pipes," Angela says. "We want to give our customers an experience. We want to create art that transports people into magical realms."

When asked about her favorite pipe in her collection, she says she is partial to her Angelic Moon Pipe. "That pipe is like my baby," Angela says. "My biggest inspiration for that piece was Sailor Moon, and the whole aesthetic of being a princess.

I wanted to create pipes I had never seen before that looked like pure magic."

While New York may be far from California, Etsy has allowed customers far and wide to enjoy Pretty Pipe's works of love. The shop gives everyone the opportunity to enjoy high-quality glass pipes with high-quality designs.

"When we make our pipes they become a break from reality," Angela says. "It's a moment to escape and fall into another world. The true purpose of these pipes is to let our customers fall into a fantasy."

Pretty Pipes Shoppe has stayed true to their aesthetic while continuing to provide their customers with the highest quality pipes and ever-evolving designs. Glassblowing is a constantly changing trade, and the company is excited to be a part of the evolution of glass. 🍷

For more information, visit etsy.com/shop/PrettyPipesShoppe

Glassblowing for a Global Audience

A Look Inside the World of Renowned International Glass Artist, Dale Chihuly

MOLLY CATE



Kew Gardens, 2005 London exhibition, Photograph by Patche

From Seattle to Singapore, Dale Chihuly's magnificent art has graced public buildings, outdoor spaces and botanical gardens around the world.

Endlessly innovative, jaw-droppingly beautiful, weird, and often trippy, Chihuly's work has redefined glass as an artist's medium that expresses abstract forms and often looks almost alive. Even postcards of his work have a WOW factor. One postcard in particular showcases loads of his Seaform pieces lining the bottom of a pool with a woman serenely floating above them.

Now 75, the Tacoma native has worked with glass since his undergraduate days at the University of Washington. When he blew his first glass bubble in 1965, he knew he had found his calling. Chihuly enrolled in the first academic glass program in the U.S. at the University of Wisconsin and went on to found the glass program at the famed Rhode Island School of Design.

While on a Fulbright Scholarship to Venice in 1968, he saw the team-based approach to glassblowing in action. That is still central to how he works. Always interested in collaboration, he had departed from the norm to work with another glass artist in college. A car accident in 1976 that permanently maimed one foot and cost him his left eye, also shaped his team-based approach. Chihuly explains



'The Sun' taken by Adrian Pingstone, 2005



'Through the Looking Glass' taken by Shilpaahuja, 1984



Dale Chihuly photographed by Erik Charlton

that he does not have the depth perception and balance needed to safely handle molten glass. Instead, he sketches his ideas and directs the team through the production process.

Chihuly co-founded Pilchuk Glass School on a tree farm in Stanwood, Washington in 1971. He has watched it grow from primitive working conditions to a world-class, international art glass center, mentoring many along the way. In 1994, he supported Hilltop Artists, a local glass art project for at-risk youth. Two years later, it was incorporated into the Tacoma Public School system.

He continues to innovate new forms, patterns and fusions. Rather than moving from one style to another, abandoning earlier ones, Chihuly continually builds a catalog of forms to re-use, extend and mix together. Some of his best-known styles include; Cylinders (a form he has revisited many times, some with textile-looking patterns and, more recently, a series inspired by James Joyce's novel, *Ulysses*), Seaforms (abstract, highly colorful, open bowl shapes like the prettiest clamshells ever imagined), Macchia (like Seaforms but with speckles of ground glass that utilize all 300 colors available in his shop, Persians (very large, fluted disks) and Venetians

(squiggly tubes and flower-like forms in massed arrangements).

Some installations mix a variety of forms into veritable ecosystems of shapes and colors. Others are massive chandeliers or towers of blown forms carefully tied onto an armature (a sort of skeleton used to hold a sculpture together). Though known for his extravagant use of color, at times he immerses himself in clear or milky white, black, or silver glass for a while.

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BERRY SUMMIT – \$425,000

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BAYSIDE – \$299,000

±20 Acres located just outside Arcata City limits on Old Arcata Road. Property features beautiful views of the Arcata Bay, a mixture of Redwood and Eucalyptus trees, elevated building site, and grassland areas for cattle or other AG uses.

WILDWOOD – \$800,000

±933 Acres on North Star Mountain in Tehama County. Parcel is approximately 3 hours from Eureka and features timber, roads, and elevation at 4800'.

FERNDALE – \$289,000

Rustic farmhouse style cabin on ±10 steep acres featuring abundant water, outbuildings, gravel pit, and mixed timber.

ORLEANS – \$1,650,000

±320 Acre historical location overlooking the Orleans Valley featuring open meadows, amazing views, timber, spring, a 3 bedroom, 2 bathroom ranch house, and guest cabin.

FERNDALE – \$299,000

±9 Acres of completely flat pasture featuring an AG, water tank, 60'x80' building pad for a 40' x 60' pole barn that has already been planned, paid for, and construction has begun.



NEW LISTING SHOWERS PASS – \$450,000

±80 Remote acres in Showers Pass. Property features privacy, year round spring, natural pond, 2 unpermitted cabins, and 3 developed flats. Parcels have mixed timber including fur, cedar, and maple. Seasonal access only.

NEW LISTING KING SALMON – \$159,000

Three parcels totaling ±.4 acres on the canal in King Salmon. Water and power on the property.

PLATINA – \$129,000

±40 Acres near the Trinity-Shasta boarder. This remote parcel is surrounded by mostly USFS and features flats, oak woodlands, and springs.

BERRY SUMMIT – \$550,000

±210 Wooded acres located between Arcata and Willow Creek just off of Highway 299. Parcel features lots of water and building sites. Owner will carry with 40% down.

HAWKINS BAR – \$99,000

±2.09 Partially wooded acres featuring a small existing flat and community water/PG&E to the parcel.

SHELTER COVE – \$150,000

±.5 Commercially zoned acres featuring public water at street, completed perc test, and plenty of sun.

INDIAN ISLAND – \$170,000

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FEATURED LISTING LEGGETT – \$425,000

±40 Parklike acres 20 minutes outside of beautiful Leggett! Property has been lovingly cared for and meticulously improved with stunning custom artistic touches throughout. Parcel features a one of a kind 60'x30' permitted industrial living space, ocean views, wind turbine, solar system, permitted well, ocean views, fenced garden areas, mountain biking/hiking trails throughout, and a cargo container currently used as a shop. This is a must see property!



REDUCED RUTH – \$659,000

±75 Acres featuring a wood frame cabin, 2 sheds, pond, additional newly constructed pond with a 900,000 gallon capacity, year round spring, seasonal creek, south-facing open grasslands, and agricultural improvements..

MAPLE CREEK – \$695,000

±65 One of a kind acres in Maple Creek! This rare, riverfront property features beautiful open meadows, amazing views, a year-round creek, springs, and great access of County roads. Zoning is TPZ.

BLUE LAKE – \$895,000

Stunning ±40 acre parcel just 10 minutes Blue Lake! Located outside the fog line, this property boasts southern exposure, a very large pond, water tanks, mixed timber, views, and several buildings sites.

WILLOW CREEK – \$399,000

±50 Steep acres featuring terraced flats, large cabin, guest cabin, creek, and views.

ONO – \$98,000

±40 Acres in Shasta County featuring seasonal pond, beautiful views, and fencing.

BLUE LAKE – \$192,000

±.2 Acres featuring community water, 100 amp PG&E, mixed use zoning, and 1000 sq. ft. industrial building.

'Yellow Chandelier' taken by Deror avi, Jerusalem



He sums up his artistic vision this way, "I want people to be overwhelmed with light and color in a way they have never experienced." When asked what his favorite color is, Chihuly replied, "I like to say I've never met a color I didn't like."

To other aspiring artists, Chihuly advises, "surround yourself with artists and see as much art as possible. Go with your gut and create something that nobody has ever seen."

In 1986, he was honored with a solo show at the Louvre in Paris. Several cities have hosted installations involving multiple locations for his works. Most famous are the multi-installation exhibits; "Chihuly Over Venice," with its colorful floats bobbing in canals and chandeliers hanging from its famous bridges, and "Chihuly in the Light of Jerusalem," which broke attendance records in the year 2000 with over one million visitors.

"Chihuly in Tacoma" was a weeklong residency program back home, documented in a film called Chihuly in the *Hotshop* (available through Netflix DVD). Amongst hundreds of locations, his works have graced an Academy Awards banquet, appeared in Rockefeller Center in New York City, the 2002 Salt Lake City Winter Olympics, the Clinton Presidential Library, the Bellagio in Las Vegas, the Victoria and Albert Museum in London, the Smithsonian Institution in Washington, DC and in Monte Carlo.

In 1992, he designed sets for a Debussy opera in Seattle. In 2007, created sets for Bartok's opera Bluebeard's Castle, which has been staged in Seattle, other U.S. cities and Tel Aviv, Israel. This same year also marked the opening of the Chihuly-inspired Tacoma Museum of Glass. Though instrumental in the museum's founding, he is careful not to dominate, wanting to showcase other glass artists. Twenty years after, the Chihuly Bridge of Glass was dedicated in his honor as the grand entryway to the Glass Museum.

Chihuly's work appears in more than 200 museums worldwide; the list fills five pages online. Amongst his many awards are 12 honorary doctorates and two fellowships from the National Endowment for the Arts.

Dale Chihuly has elevated glass to fine art many times over. Through his years of experience and mastery, Chihuly is able to break from thousands of years of tradition to create glass art that not only inspires, it also pushes boundaries. 🌿

Ontario, Canada has Chihuly's current exhibits, at the Royal Ontario Museum through January 2, 2017 and the Sandra Ainsley Gallery through December 10th, 2016. If you haven't gone, you owe yourself a pilgrimage to Tacoma. Be sure you hop a bit north too for Chihuly Garden and Glass, a museum of his works in the Seattle Center.

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Per Glass

“Most of the things I make are functional in some way and I try to use that functionality as the guiding design criterion rather than an afterthought.”

M E L I S S A H U T S E L L

The field of glassblowing is growing in demand – at the top of the profession are skilled, custom glassblowers who can take ideas and turn them into complex pieces of art.

Per Tillisch, owner and operator of Per Glass – located in Humboldt County, is one of those glassblowers.

Per's fascination with glass began with his childhood marble collection. This captivation, he explains, only grew after moving to Humboldt County and watching the glassblowing process for the first time.

“That was when I realized it was something I wanted to do.”

Sixteen years ago, while living in an apartment complex in Arcata, California, Per got his first lesson in the building's laundry room, “on top of the dryer. [The glassblower] gave me the classic mushroom pendant tutorial.”

“A humble beginning, but I was hooked,” he explains.

Like many glassblowers, it took time for Per to refine his passion into a skill. He began making glass full-time in 2004 and opened a glassblowing studio.

Since then, he has done it almost every day – gathering more than 34,000 hours of glassblowing and counting. “I started making glass as a hobby, but soon realized that the expense [it] required [necessitated] that it produce some income. I slowly started treating it more as a career as time went on.”

In 2013, he launched Per Glass – an online retail hand-blown glass company. Though his work is sold in shops throughout the California and other states, his business is now based primarily online, which allows for a global customer base.

From didgeridoos to marbles, Per's glass inventory is diverse: vases, pendants, wine glasses, jars and bottles. He incorporates a variety of materials, colors and styles to deliver a distinct collection of handmade glassware that's just as beautiful as it is durable.

Per's pieces feature a little bit of everything: fuming, sandblasting and calcedonio, which “mimics stone by the use of organic swirls of different colors of glass,” he explains. Lately, “I've been liking styles that have a textural quality such as sandcarving, hobnails, large surface frit and optic molds.”

Different textures and material cause different effects, something that brings character to his work and sets his art apart from the rest of the glassware on any shelf. He puts a lot of aesthetic considerations such as proportion, visual balance and color combinations into even his most simple designs.

In terms of glassblowing methods, Per is a lampworker. “This means I use a torch to melt the glass,” he explains, because the heat source is more precise, the details in the results are more precise.

Per is drawn to create, and is inspired by the materials he uses. “I try to let the glass do what it wants to do. This can be very different from one color, thickness, diameter or application to another and may not become apparent until the process has begun.”

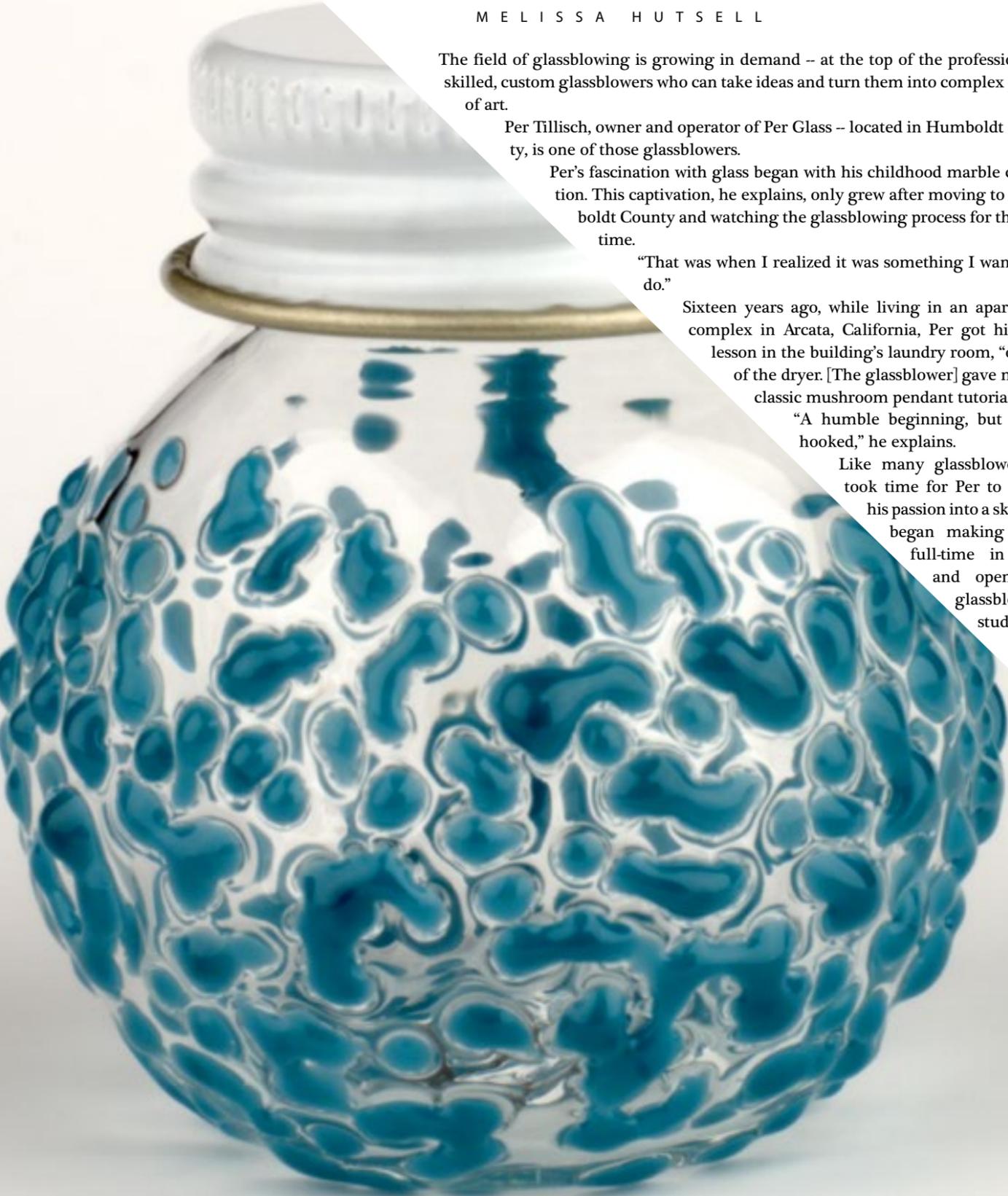
He works with a type of glass called borosilicate. “It [was] primarily used for laboratory glassware due to its ability to handle rapid temperature changes and chemical resistance but has become popular for creative uses,” Per explains. “I also do some work with fused quartz, which is almost pure silica.”

His design process usually encompasses multiple prototypes and customer feedback. He wants his customers to enjoy his glass as much as he enjoys making it.

The technical nature of glassblowing, its instruments, and working with his hands also drive his passion. “An understanding of the chemistry and physics happening in the glass [are essential],” he adds, “often because the tools must be modified or built from scratch.”

“In this age where most products are made in factories using automated processes, often in another country, I get a kick out of actually making things. Even though glass can be fragile, I get a sense of permanence from the finished pieces.”

“In this age where most products are made in factories using automated processes, often in another country, I get a kick out of actually making things. Even though glass can be fragile, I get a sense of permanence from the finished pieces.”



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His glassware is created with cost and utility in mind. "Most of the things I make are functional in some way and I try to use that functionality as the guiding [point] rather than an afterthought." Affordability is also important. "Often I'm trying to make original designs without pricing them out of reach of the average customer," a difficult balance, he says.

Since launching his business he has learned that some items are surprisingly more popular than others. His best selling products include his handmade wick-holders, jars and perfume bottles. Primarily, he focuses on producing non-cannabis related glassware because of the nature of his web-based business. Though he notes, the cannabis industry influences his sales.

"Even though I don't sell any pipes online, I've found that the majority of my sales are still for cannabis related items," he says. "I sell jars that could be used for any purpose and are not marketed as a cannabis specific product, but I frequently have customers that contact me asking about my 'stash jars.'"

One item that has sold surprisingly well is cremation urns. "People really appreciate getting some handmade glass for such an important purpose without being overcharged just because of the nature of the product."

Niche products like this, says Per, are successful because of an ever-expanding market. The rapid changes in the cannabis industry are driving glassblowers toward technical innovation. It is also influencing manufacturers to innovate raw materials and tools.

The general acceptance of the legitimacy of the industry has allowed many glassblowers, especially pipe makers, Per explains, to operate more publicly than before -- thanks to social media, trade shows and art galleries.

As this acceptance grows, so does the awareness and "the big picture of glass, both contemporary and historical," he says.

Without a strong cannabis culture, this might not have been possible. 🍃

For more information about Per Glass, visit PerGlass.com.

Pick up his work at these local businesses: Smoking Caterpillar, Schatzi's Hidden Treasures, Humboldt Clothing Company, Pacific Paradise, Stuff N' Things, and The Humboldt County Collective.

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Emerald Glass Gallery

The World's First Boutique Gallery
for Smokable Glass

GOOEY RABINSKI

Why entrepreneur Reed Berger opened the world's
first boutique gallery for smokeable glass
in the heart of Humboldt County

High-end smokable glass has traditionally been sold as an afterthought at music festivals and in head shops. In culture stores throughout the United States, bongs and pipes costing more than \$100 are typically relegated to a single dusty display case that sits among a significantly larger selection of inexpensive production pipes.

Unhappy with how premium "functional" (smokable) glass takes a backseat to five dollar throwaway pieces, Reed Berger

decided to do something novel. In March 2015, he opened a boutique retail environment for glass in Arcata, California under the moniker of the Emerald Glass Gallery.

"This art gets lost in the head shop atmosphere, in the trade-show atmosphere, and in the production atmosphere that's predominantly represented nationwide. I always wanted to open a place that focuses specifically on the high end," said Berger.

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Emerald Glass Gallery in Arcata is not only unique, but—according to Berger—the only premium functional glass gallery of its kind in the world. “This is the only place you can go to find just high-end, artsy, functional glass,” said Berger during an exclusive interview with *Emerald Magazine*.

Most pieces at the gallery, which is open every Saturday and by appointment, are priced between \$1,000 and \$250,000.

Emerald Glass Gallery has showcased some of the top names in functional glass art, many of whom are local. One notable featured artist is Humboldt-based blowing legend Banjo. “He’s taught a lot of artists in the area who reverberate his style,” said Berger.

Other popular master glass artists who have been featured at the progressive gallery include Jared DeLong, Tristan Hodges, Darby Holm, and Scott Rosinski (Mr. Gray Glass).

Emerald Magazine: “What is the state of the high-end glass market on the West Coast?”

Reed Berger: “Locally, there’s five or six artists who really hold it down. Regionally, there’s a heavy concentration of artists between San Francisco and Seattle. But there’s [little] representation in Northern California. That’s why I opened a shop in

San Francisco, in addition to this one in Arcata.

There’s plenty of glass shops in Seattle and a handful in Oregon that sell production stuff and a few heady pieces. But there’s really nothing in Humboldt.”

EM: “Are there any galleries in the United States, other than yours, that are dealing exclusively in premium-quality smokable glass in a boutique environment?”

RB: “Nobody in the country is doing high-end glass exclusively. This is really the only place in the world you can go...other than my shop, The City Gallery, in San Francisco...to experience such an environment. Elsewhere you’re going to find low-end glass, sneakers, clothes, jewelry...”

EM: “Why does \$1,500 heady glass sit beside \$20 t-shirts and black light posters in most retail environments?”

RB: “It’s because our culture is so underground. Which is why I opened the gallery. I wanted to create a business and do this publicly, in a retail space, so people know what’s going on...so it doesn’t just continue to perpetuate the underground.”

“Before I had a gallery, I was just supporting the whole hush-hush aspect of it. Customers didn’t want to talk about prices or what they bought. It’s the opposite now; people are posting everything online. Today, they’re trying to buy and sell everything publicly and it’s very open. Things are definitely changing.”

EM: “The current wave of cannabis legalization across the United States seems to be helping artists and entrepreneurs like yourself do their thing above ground, out in the open.”

RB: “Acceptance. It’s really about acceptance.”

EM: “Do you host glass shows that feature non-smokable pieces?”

RB: “My last show in San Fran-

cisco was for high-end bottles...wine decanters, whiskey decanters...that kind of stuff. Most glass pipe artists will tell you that, if they could, they would also make non-pipe pieces. It would be nice to be able to do both and have it all sell. Pipes are just such an easy thing for a lot of glass artists...I think it’s why they don’t stray away from them.”

“But I stray. I try to sell as much non-pipe art as I can...it just doesn’t seem to pay the bills. Not that the market isn’t there. I think the group of people who are buying very expensive high-end, non-functional glass art aren’t necessarily the type of people who feel comfortable at my gallery with my other clientele. So it’s a bit of a cross contamination issue.”

EM: “Aside from your love of high-end glass and the obvious desire to make a living, what motivated you to open your gallery?”

RB: “What I’m doing here...and the whole Humboldt scene for glass...follows Jared DeLong and Lost Coast, an appointment-only gallery in Trinidad, California. Jared is, without a doubt, the original pioneer of hosting functional glass art shows in Humboldt County. He’s the first one to bring public awareness to what’s happening on the glass scene in Humboldt.”

“Talk about underground...most people don’t even know Lost Coast Gallery exists. But Jared is the inspiration for this space and what I’m doing. He’s my favorite glass artist in Humboldt County...and possibly the whole country. The style he brings to glass is unlike what anyone else is doing.”

EM: “Do you think we’re at the beginning of a resurgence of smokable glass in the United States?”

RB: “Well, for high-end specifically, I don’t know if it’s a resurgence, because I don’t know if it was ever really there.”

EM: “Do you think we’re witnessing the emergence of a new market for high-end functional glass?”

RB: “It would be a new thing, yeah. When I got into glass, the most expensive piece you could purchase was a couple grand. And that was completely insane. Nothing was five...six...seven thousand dollars. That was just not even a thing. Today, seven thousand dollars won’t even get you in the door with a lot of glass artists.”

Emerald Glass Gallery is located at 740 15th St. in Arcata and can be found at emeraldglassgallery.com and on Instagram at [@emeraldglass](https://www.instagram.com/emeraldglass).





MoonMan's Mistress

Stone-Age Simplicity for Space-Age Stoners

SHANNON PERKINS

Tickets to the space station aren't necessary, because MoonMan's Mistress has landed with cookies that will take you to outer space. Astronauts, athletes, those with food allergies, those who are health conscious or selective about potency – they've got you covered.

MoonMan Mistress cookies are all organic, gluten-free, dairy-free, soy-free, paleo and low-glycemic. They also have vegan and nut-free options. The flavor is on point, with a subtle, pleasant ganja undertone. Each cookie is sweet enough to enjoy, and potent enough for medicinal purposes. And, drum roll please... there is a CBD cookie coming soon!

The writer met up with co-founder, Liz Rudner, and L.A. sales representative, Katrina Lofgren, for a paleo brunch and cookie talk.

MoonMan's Mistress was created by health and wellness heroes Rudner and Jamel Ramiro in 2015. Rudner holds a certificate in nutrition from Precision Nutrition, has over 20 years of experience in the hospitality industry, and is currently enrolled at the Institute of Integrative Nutrition. Ramiro is a U.S. Army Veteran, NASM certified personal trainer, Muay Thai/Boxing coach, and devoted surfer. Like their cookies, Rudner and Ramiro are on a mission to educate and medicate.

They aim to empower people about health: how to get it and how to keep it. Plus, Rudner says, "cookies make people happy."

Nearly every square inch of packaging is covered in information about ingredients, dosage, and lab test results.

Because others might be new to paleo-centric eating, or cannabis, Rudner offers a product that is familiar and friendly: the cookie.

The Paleo diet is based on what people ate in the stone age – meat, fish, fruits, vegetables, and nuts. Through eating a paleo-based diet, Rudner found relief from Celiac and Hashimoto's disease, and she was inspired to share the information.

Rudner hopes to help people make healthier, informed decisions so they can lead a long, healthy life that is free from sickness, lack of energy and staggering hospital bills. She and Ramiro promote preventative medicine through healthy eating and exercising habits. "Everyone is different. Every bio blueprint is different. The amount of THC each person needs is different. Educating ourselves, even for recreational use, is very important," Rudner said over our late October brunch.

There are five flavors to blast off your healthy cannabis experience; Chocolate Chip Crater Cookie, Trail Mix Super Nova Cookie (1st Place Winner Best Healthy Edible, 2015 Edibles List Awards), Pumpkin Pecan Mini Space Cakes, Lunar Lemon Maca Shortbread Cookie (Vegan Option), and Cosmic Cacao Peppermint Cookie. My personal favorite is the Chocolate Chip Crater Cookie. The ratio of chocolate chip-bite is just right.

Each cookies is made with purposefully chosen ingredients. The Cosmic Cacao Peppermint Cookie, for example, highlights the use of peppermint to address symptoms of nausea and vomiting, especially for cancer patients using chemotherapy. For MoonMan's Mistress, it's about engaging in cannabis in the healthiest way possible. They use nutrient-dense sugars like organic, real Vermont maple sugar which has 24 different antioxidants, and organic coconut nectar which has 17 amino acids, Vitamins B and C, and loads of minerals.

All MoonMan's Mistress cannabis is organic and outdoor grown; it is supplied by Dirt Ninja in Sonoma County and other private, organic farms. The eggs come from free-range, organically raised chickens whom Rudner has personally met. The boxes include highlights of each ingredient.

These cookies are perfect for anyone who wants wellness, cannabis and transparency. Athletes love these cookies. People suffering from autoimmune disorders like Celiac, Hashimoto's disease, and Crohn's disease love these cookies. People who need strong, organic THC as medicine love these cookies.

For the saturated consumer, this cookie is dank with full-plant power. Let me tell you something kind of important: dose this little cookie out, seriously.

MoonMan's Mistress uses a full-plant emulsion technique in which the entire cannabis plant, flowers, leaf, and all, is placed in a vat of coconut oil and basically blended up. Unlike other recipes, the plant matter remains in the oil, in the batter, and the cookie you eat. The plant matter is never strained out, so there are even more beneficial cannabinoids.

Rudner says that whether or not you are a heavy user, "the nutrient-dense fats pack a hard punch." These cookies may feel stronger than other edibles with the same or lower dosage of THC – so again – dose it. She explained that, "the psychoactive material, THC d9, loves fat. Fat doesn't break down until it gets to your liver. The chemical reaction doesn't happen until then. So what happens is, it's a slow roll: once it hits your liver, it then hits your bloodstream, then it flows out."

From my experience, looks can be deceiving. This isn't just some cute, little, tasty pot cookie. It's a powerhouse. 🍪

Feel it for yourself. Moonwalk with MoonMan's Mistress. For more information on the makers, the cookies, and where to find them, check them out @moonmansmistress or visit moonmansmistress.com



HUMBOLDT APOTHECARY

plant syn·er·gy - 'sinerjē:

the interaction of two or more plants to produce a combined therapeutic effect that is more medicinal than the individual effects



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humboldt-apothecary.com

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Pumpkin Soup

Adapted from MinimalistBaker.com

Ingredients:

- 2 small-medium sugar pumpkins
- 1 tablespoon olive oil
(+ extra for baking sheet)
- 1 small white onion, diced
- 4 cloves garlic, diced
- 2 cups organic chicken broth
- 1½ cups (full-fat) coconut milk
- 2 tablespoons maple syrup
- ¼ teaspoon cinnamon
- ¼ teaspoon nutmeg
- fresh ground black pepper + sea salt to taste
(the Furikake topping is fairly salty)

Instructions:

Preheat oven to 350 degrees. Slice off tops of pumpkins and halve. Use a spoon to scrape seeds and strings into the compost. Drizzle a baking sheet with olive oil. Place pumpkins flesh side down and rub lightly in oil, so surfaces touching pan are evenly coated. Bake for 45 minutes. Remove from the oven. When cool, peel flesh from skin and set aside. Add 1 tablespoon olive oil to a large saucepan over medium heat.

Add diced onion and garlic. Cook for 3-5 minutes or until slightly browned and smelling fragrant. Add all remaining ingredients and bring to a simmer. Pumpkin will break down under heat. If you like pumpkin dishes on the sweeter side, add extra ¼ teaspoon cinnamon and nutmeg and extra maple syrup to taste. Use an emulsion (stick) blender to puree the soup or transfer to a blender if only option available (if so, blend in batches to prevent hot, messy overflow). Keep soup on low and season with salt and pepper to taste, remembering that Furikake-Kale topping will raise up saltiness.



Cannabis-Furikake Kale

Ingredients:

- 2 cups roughly chopped kale
- 2 garlic cloves, diced
- 4 tablespoons Furikake seasoning
(find in Asian food section or specialty store)*
- 2 tablespoons cannabis olive oil

Instructions:

In a small skillet over medium heat, dry toast Furikake for 5 minutes, stirring frequently until aromatic and sesame seeds are lightly browned. Remove from pan and set aside. Keeping heat on medium, add cannabis olive oil to hot pan. Add garlic and sauté a few minutes until light brown. Add chopped kale and stir to coat, then cover to let steam until kale is wilted. Add Furikake back in and stir together. Ladle 1 ½ to 2 cups of pumpkin soup in each bowl and top with a generous pile of cannabis-Furikake kale (top modestly for cannabis-sensitive guests). Try serving with a rustic loaf of local bread and enjoy! 🌿

*Furikake is a Japanese seasoning blend comprised of sesame seeds, seaweed and dried fish. It's absolutely delicious! The herbaceous cannabis olive oil only enhances the flavor and balances the sweet flavor profile of the pumpkin soup.

- EMERALD ENTRÉES -

N O R A M O U N C E

As storms move through California's North Coast in November, Humboldt County residents welcome the start of soup season. An easy, fail-proof recipe, this pumpkin soup is as healthy as it is delicious. For an extra medicinal and flavor factor, top each bowl liberally with the cannabis Furikake-kale topping.

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- EMERALD ENTRÉES -



American expat writer and bohemian socialite, Gertrude Stein, is best remembered for her patronage of the arts, literary wit and fearless candor. Stein and her life partner, Alice B. Toklas, lived a colorful life in Paris for forty years, hosting a parade of impressive friends at their home, including Hemingway, Picasso and Fitzgerald. Though Stein was the bigger personality of the couple, Toklas made her mark in culinary history when she published "The Alice B. Toklas Cookbook" in 1954. Both a collection of eclectic French recipes and a narrative of Toklas and Stein's life together (Stein passed in 1946), the cookbook is often remembered for its most famous recipe – the original pot brownie.

The historic recipe, passed onto Toklas by a Moroccan artist and friend, is labeled "Hashish Fudge." Toklas recommends preparing alongside "large quantities of mint tea," as a preventive remedy for the common cold and "entertaining refreshment for a ladies bridge club."

Though mysteriously containing no chocolate, Toklas calls the fudge "the food of paradise." The recipe reads like a collection of ingredients one might collect on trip to the spice market – whole nutmeg, a cinnamon stick, peppercorns and a handful of dried fruit and shelled nuts. On publication of the cookbook, Toklas was shocked that her editors pulled the recipe from American editions due the innocent incorporation of finely ground hashish. Toklas would be happy to know that decades later, zillions of weed-friendly Americans have happily indulged in chocolate-hearty adaptations of her beloved hashish fudge.

Thinking beyond brownies, I couldn't help but notice that Toklas' original version mimics the healthy snacks touted by today's anti-grain, high-protein paleo craze. By re-appropriating Toklas' original recipe for modern palates, these edible cannabis Paleo Bites are a grain-free, dairy-free, chocolate-free medicinal snack that will power you through the day. A cinch to whip up, use cannabis coconut oil and whatever fruit and nuts you have in the pantry – Alice B. Toklas would approve. Enjoy!

N O R A M O U N C E

- Menu 2 - Paleo Bites

Adapted from PaleoLeap.com



preparation
medium-low heat
for 3-5 minutes



portion for
4 people



serve
cold

Ingredients:

01. 2 cups walnuts, chopped
02. 1 cup dried Medjool dates, roughly chopped
03. 2 eggs, beaten
04. ½ cup honey
05. 1 teaspoon vanilla extract
06. 1 cup small unsweetened coconut flakes
07. ½ teaspoon sea salt
08. ¼ cup cannabis coconut oil

Instructions:

01. Crack two eggs in a small bowl and whisk thoroughly.
02. Combine beaten eggs, cannabis coconut oil, honey and dates in a medium saucepan placed over a medium-low heat. Carefully bring to a boil, increasing heat as needed - make sure the eggs don't cook!
03. Once the liquid is simmering, stir frequently for 3 to 5 minutes. Remove from heat and stir in vanilla, sea salt, walnuts and coconut flakes. Roll the mixture into small balls. Refrigerate until firm. Enjoy!

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- Menu 3 -

Cannabis Sweet Potato Fries with Avocado Aioli

Adapted from Chia, Quinoa, Kale, Oh My by Cassie Johnston.

N O R A M O U N C E

Skip the deep fryer and enjoy these medicated fries without the guilt as a rainy afternoon snack or addition to dinner.



preparation
400 degrees for 35 minutes



portion for
2-4 people



serve
warm

Sweet Potato Fries:

01. 4 large sweet potatoes
02. 2 tablespoons smoked paprika
03. 2 teaspoon garlic powder
04. 1 teaspoon cumin
05. ¼ teaspoon cinnamon and a pinch of cayenne
06. 1 ½ teaspoon sea salt and black pepper
07. 2 tablespoons olive oil
08. 2 tablespoons cannabis coconut oil (adjust as needed)

Preheat oven to 400 degrees.

Peel sweet potatoes and slice into fries. Combine the spices in large mixing bowl. Add olive oil and sweet potatoes and toss thoroughly until all fries are evenly coated. Spread out the fries in a single layer onto two baking sheets. Bake for 35 minutes, flipping once halfway, until fries are lightly browned and crispy.

Avocado Aioli:

01. 1 large, very ripe avocado
02. ¼ cup mayonnaise
03. 3 cloves garlic
04. 1 large, juicy lime
05. heavy pinch of sea salt + pepper

Instructions:

Scoop avocado into the bowl of a food processor.

Add juiced lime, diced garlic and remaining ingredients. Pulse until smooth and creamy.

Add salt and pepper to taste.

Serve with fries.





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VINUM, ET AL



FESTIVE FIZZIES

Champagne, real Champagne from the Champagne region of France est très chère – it's very expensive. In my experience, Champagne priced under \$50 is money down the drain. New baby? Huge career promotion? Yeah, fork out the cash and buy the good stuff, otherwise don't bother.

The good news is that there are heaps of inexpensive and equally satisfying alternative sparkling beverages. November is a great time for consumers to stock up for holiday occasions as sparkling wines, seasonal ciders and beers start taking up retail shelf space. When it comes to Thanksgiving feasts or any kind of festive seasonal gathering, bubbles, especially low-alcohol bubbles, are an essential offering to your guests.

Low alcohol, in wine speak, is anything under 13 percent. Consider Prosecco (Italy) and Cava (Spain). Both of these common sparkling imports typically clock in around 11 percent. Most are produced in the brut (dry) style and are refreshing, citrusy and pair well with just about everything. On the other hand, if you want to spend a bit more, I suggest going hyper-local with Briceland Winery's Brut. Produced from Humboldt County grown grapes, it's a beauty and fairly priced at around \$34 per bottle.

Hard ciders are also mostly low alcohol; like craft beer, they run in the 5 to 7 percent range. Here's a product that's exploding on the Humboldt County, California scene with great gusto. I highly recommend Wrangletown Cider Company of Arcata and Eureka's Humboldt Cider Company.

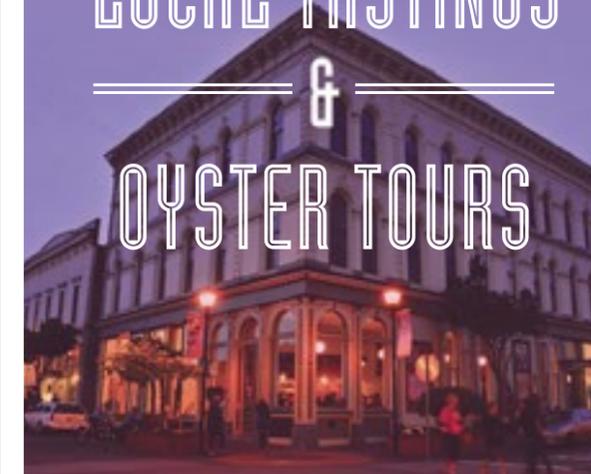
Wrangletown bottles their bone-dry fizzies in 750 ml bottles sporting busy, quirky, Dr. Bronner-like labels. Humboldt Cider's creations are available at a few local watering holes as well as at their tasting and production space located at Redwood Acres Fairgrounds. Good news – they recently debuted their mini-growler program. Buy the 750 ml jug for \$5 and fill (and refill) for \$8.

I recently spoke with Tom Hart of Humboldt Cider and they just released a batch of These Nuts, which is a fall and winter seasonal treat that delivers a joyful, maple-pecan sleigh ride. 🍷

P A M L O N G is a wine educator, consultant and writer. Consider a career in the Wine and Beverage industry and earn your Wine Studies Certificate through HSU's eLearning and Extended Education. Email Pam: thewinedummy@gmail.com.



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- Jeff The 420 Chef -



Fig, Pear & Pumpkin

MAKE THE CRUST

1. In a large bowl, combine the dry ingredients.
2. Using two knives or a pastry cutter, cut in the Crisco, butter and canna-butter.
3. In a separate bowl, whisk the egg and buttermilk mixture together, then sprinkle over the flour mixture.
4. Knead together, adding a bit of extra water if needed to make the dough smooth.
5. Form the dough into a ball and then flatten into a disk, wrap it in plastic and refrigerate for 30 minutes.

MAKE THE FILLING

1. Place diced pumpkin in a large bowl.
2. Using a mandolin, thinly slice each of the opposing sides of the pear until you reach the core.
3. Slice off the remaining pear on the sides of the core and dice.
4. Add the diced pear with the pumpkin and add the fig halves.
5. Toss with 1/4 cup of jam and 1 teaspoon of sugar spice mixture. Set aside.

ASSEMBLE

1. Line a sheet pan with parchment paper.
2. Roll the crust into a 13" to 14" round, and transfer it to the parchment paper.
3. Press a 10" dinner plate lightly onto the dough to form a circle. This is your guide.
4. Spread 1/4 cup of the jam within the circle.
5. Pile the fruit in the center of the circle and spread out to the edge of your guide.
6. Fold the crust up over the fruit, pinching or pleating as you go, leaving a few inches of fruit exposed in the center.
7. Brush the dough with egg white and sprinkle with sugar spice mixture.
8. Bake the pie in a preheated 400°F oven for about 35 minutes, or until the filling is bubbling and the edges of the crust are brown.
9. While the pie is baking, make the Balsamic Reduction.
10. Remove it from the oven, and cool for 15 to 30 minutes.
11. Sprinkle with Gorgonzola cheese and drizzle with Balsamic reduction before cutting into 8 equal slices.
12. Serve warm.
13. Store, covered, in the refrigerator for up to three days (if it lasts that long!)

MAKE BALSAMIC REDUCTION

1. In a small saucepan, mix balsamic vinegar with sugar.
 2. Bring to a boil and then reduce heat and simmer for 25-30 minutes until reduced to half and somewhat thick.
 3. Remove from heat and allow to thicken as it cools.
- Tip: using a funnel, transfer balsamic reduction to a small plastic squeeze bottle. It's the best way to drizzle and get creative!

Bon Appétit!



- Menu 4 -

**Fig, Pear & Pumpkin "Humboldt Pie"
with Gorgonzola and Balsamic Reduction**

Approximate Dosage -- Based on infusing 3.5gm dried/decarbed cannabis into one stick of butter (starting cannabis weight before dry/decarb was 7gm).

- 10%: 5.3mg, 15%: 8mg, 20%: 10.6mg -



preparation

400 degrees for 35 minutes



portion for
8 servings



serve
room temperature



Crust:

01. 1 2/3 cups unbleached all-purpose flour
02. 1/4 teaspoon salt
03. 1/2 teaspoon baking powder
04. 1/4 cup Crisco
05. 2 tablespoons Jeff's Light Tasting Cannabutter
(recipe available at JeffThe420Chef.com)
06. 2 tablespoons grass fed butter
07. 2 tablespoons cannabis coconut oil (adjust as needed)
08. 1 large egg
09. 1 tablespoon buttermilk + 1 tablespoon water
10. 1 egg white

Filling:

01. 1/4 cup fresh pumpkin, diced and peeled
02. 1 Bosc pear, firm
03. 1/4 cup figs (dried or fresh)
04. 1/2 cup fig (or pear) jam
05. 1/4 cup raw cane sugar + 1 teaspoon cinnamon + 1 teaspoon nutmeg (mixed together)

Garnish:

01. 2 tablespoons Gorgonzola Cheese
02. 1 cup Balsamic Vinegar
03. 1 teaspoon sugar



Baked in Humboldt

M A R I S S A P A P A N E K

Gazing across an array of meticulously decorated medical candies produced by Rachel Schmidt, you'd never guess her first food job was in a butcher shop. Her knack for creative, sugary confections is innate amid her diverse background and deep understanding of food. She just can't help how much she loves the sweet stuff.

"I love playing with sugar," Schmidt says. "You can make it pretty. Edible sugar art, pulled sugar, gum paste flowers." She likes to push the limits and see what she can do with food and how she can load it up with nourishing THC, CBD and terpenes. She isn't just cranking out edibles to get you high.

How does Schmidt remain successful as proprietor and sole employee of her brand Baked in Humboldt®?

The Brand

Having a background as a confectioner and a cannabis grower for so many years, it just made sense that Rachel Schmidt would become the proprietor of a successful medibles brand.

With experience working for different edibles companies, plus a lifetime passion for baking, she finally started working for herself thirteen years ago.

"I had always baked and I had always made candies. I come from a long line of bakers and confectioners. I've been a pastry chef, chocolatier, confectioner, and I grow [cannabis]."

Schmidt creates custom orders from mild to strong with different CBD to THC ratios. She doses everything accurately and has all of her products tested by PureAnalytics in Santa Rosa, California.

Some of her customers have been loyal to her since she started Baked in Humboldt®. "Some people really do rely on having that chocolate at the end of the day," Schmidt says. "It's no different than someone who has their beer, cocktail, doobie, whatever."

How does she integrate cannabis into anything and everything?

"Those are my proprietary secrets," she says, gathering an impressive stack of well-perused notebooks stuffed with random individual pages. "This is thirteen years of research and development."



One of her current projects is her interpretive cannabis strain line: desserts inspired by specific flowers.

"I've done a lot of them," she says. One example is her interpretation of the strain *Trainwreck* into a cannoli. The rim is dipped in chocolate, rolled in pine nuts filled with lemon mascarpone, drizzled with a mango balsamic reduction and topped with candied orange peel.

She also did a bake for *Blue Dream*: "It was a lemon butter sponge cake topped with a mango cream cheese, with a blueberry jam that I made. Top that with marshmallow whipped cream and lemon zest for garnish."

She's still coming up with new creations daily, like her *Afghani Kush* petit fours buttercream cakes.

Also ever-popular are her bite-sized confections, like chocolate covered coconut truffles or cashew brittle, which can contain 25 to 30mg of THC or CBD each.

"The 50 mg ones are really popular," Schmidt says, describing how people like to dose out her edibles. "Or let's say I do a cheesecake. I can do 1,000 mg in the cake and then you can portion that out for yourself."



"I always use local Humboldt stuff."

How can you get ahold of her products?

She's known as the "candy lady" around Humboldt County, fulfilling orders consistently. Yet somehow Baked in Humboldt® isn't in dispensaries. It never has been, unless you count her appearances at Wonderland Nursery in Garberville, California.

She does custom orders and will release an order form for the holidays, which can be obtained by emailing her at 215bakedinhumboldt@gmail.com.

You can also visit Wonderland Nursery in Garberville, who currently has a freezer full of Baked in Humboldt® ice cream and gelato for sale.

With the holidays coming up, Schmidt says she's getting ready to fulfill orders for Thanksgiving pies and Christmas cookies.

Candy, Candy, and More Candy

"I've made millions of these little pieces of candy. I've just gotten better over time," Schmidt says. "There isn't anything I can't load. There's a million things I can make." Blueberry swirl lemon meringue pies? Yeah, sure. Pastry dough filled with strawberry mousse, topped with chocolate ganache; coconut macaroons with raspberry jam; spice cakes; danishes; mango cream pies. She really does do it all.

"You know the animaniacs cartoon *Pinky and the Brain*?" She's referencing when Pinky turns to the Brain and says, "What are we going to do today?" to which the Brain replies, "Well, Pinky, same thing we do every day, try to take over the world!"

"That's what I want for Baked in Humboldt®. I want it to be a recognized brand. I really do. I always bring the best." 🍀

For More Information, visit BakedinHumboldt.com or follow on Instagram @BakedInHumboldt



The extracts

The single thing outsourced by Baked in Humboldt® is the extraction process.

"I think that's the biggest thing that sets me apart," she says. "You can barely taste cannabis in my product. That's why my stuff is so good."

She brings the crop to her extraction source, who creates an oil she says has a complete cannabinoid profile and includes more THC, CBDs and terpenes than she's been able to obtain with other methods. The process is an organic ethanol cryogenic extraction and the result is 80 to 90 percent potency oil.

The Crop

Yes, Rachel Schmidt grows the cannabis she cooks into her confections. She even does all her own gardening and harvesting.

"I dry farm my product and everything is organic. No water, no fertilizer, just in the ground. And happy. Everything I grow goes into my food."

Not just about Cannabis

The extracts are strong, and the bud is fresh from the ground just outside the window of the humbly-sized kitchen where Schmidt does all her work. But the other, non-cannabis ingredients are just as important for the delicious medibles.

"I source pretty much everything I can locally," Schmidt says. "It's not cheap to do it that way. But it's the best. And it's really important for me."

She uses Humboldt Creamery dairy, Humboldt Honey, picks her own blackberries and recently bought apples from a guy down in Redcrest, California.



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Southern Humboldt Royal Cannabis Company

Reppin' Humboldt's Best

EMILY HOBELMANN

The road twists and turns, winding through a forest of ancient redwoods. We climb out of the forest and ascend switchbacks, eventually cresting atop a golden hill. The landscape opens up and we see the majestic King Range in the distance. Turn left here. Then it's down a dirt road, up a dirt driveway and into a different world.

Gate's open, we've arrived. It's a clear October day at the Southern Humboldt Royal Cannabis Company's lead farm, an elevated location with a view of the King Range beyond and the Mattole River Valley below. Our *Emerald Magazine* entourage is greeted by smiling faces. We are immediately impressed by the shipshape outbuildings and overall cleanliness of the place.

Sean Stamm is a founding member and president of Southern Humboldt Royal Cannabis Company (SoHum RC). He's also a mechanical engineer with a degree from CalPoly. This is his family farm, and it's an awe-inspiring place. One of his employees took us on a tour, walking us through a few outdoor patches accented with solar arrays, past rows of water storage tanks and into greenhouses filled with flowering rows of cannabis. In the drying room, our guide showed us his favorite CBD-dominant variety.

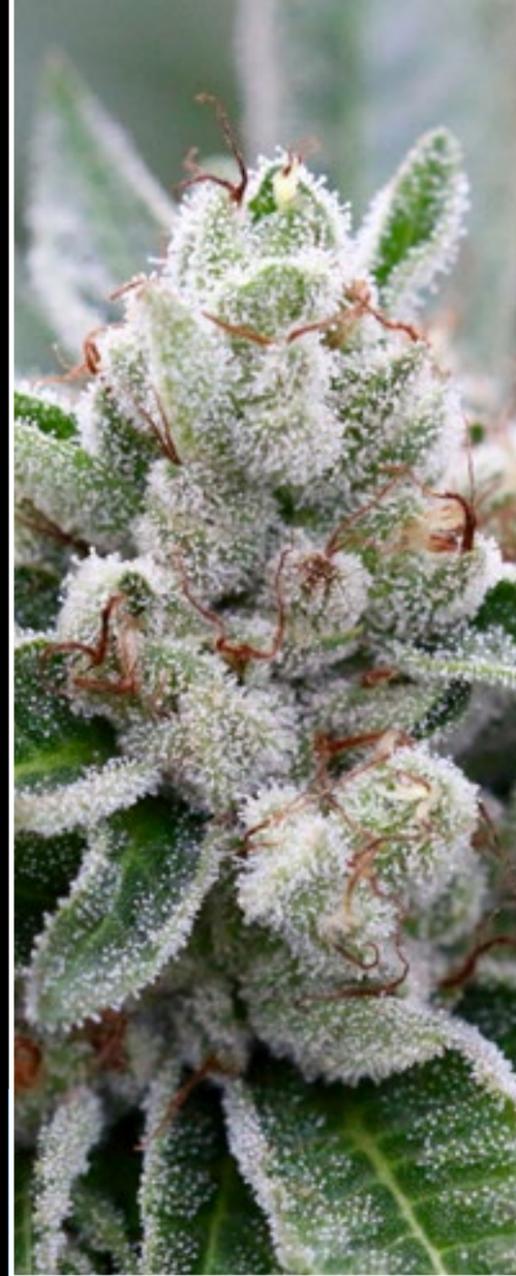
After the tour, we got a chance to sit down and catch up with Stamm. He was quite busy that day – October is a guaranteed active time at cannabis farms. And not only was Stamm busy with farming responsibilities, he was also prepping to host a community meeting the following day, with as many as 50 community members – “Our last one had that or more.”

The meetings are a chance for SoHum RC to share strategies and model actions that other local collectives and farmers can adopt to further their pursuit of becoming as compliant as possible. “We're trying to bring in all these other farmers, [to] give them resources to get their farms as close to compliant as we can be at this point in time,” Stamm says.

SoHum RC has resources to share, resources that include a network of lawyers, medical professionals, accountants and consultants. They're also trying to provide their community with access to legal sales and ways that people can document their income, “because in the old system,” Stamm says, “that's just such a hard thing to do.” They've even developed methods for inventory and batch tracking.

They are sharing information, acting as a sort of brain trust for the community. They're also leading by example, “creating business contracts with all of our employees and providing workman's comp and doing paychecks with pay stubs.” Other farms can implement their business model and can tap SoHum RC for help with getting compliant – after all, Humboldt County now has a permitting structure in place, established through the County Medical Marijuana Land Use Ordinance (CMMLUO).

It's a lot of work, running a farm and doing the tasks that Humboldt County requires for a farm to get a CMMLUO permit – the SoHum RC location we are visiting is on the verge of actually acquiring one. “We're really close. We've got all of our pieces of the permit puzzle.” The permit paperwork is quite time consuming, and it's a big deal – farmers are staking out what they are going to be able to do and continue to do for the indefinite future.





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Stamm hopes other farmers in the community do this work at a reasonable pace, as opposed to struggling to develop and document procedures for all the permitting paperwork, while simultaneously trying to double production in anticipation of the coming taxes. Stamm's advice includes being efficient with resources, choosing the right people to help you and doing some of the work yourself. "Now you're saving money," he says, "and chipping away at these little steps to get to where you can be endorsed by local government... That's what we need to do."

"Certain people definitely see us as a role model. And what I tell people is we're not there 100% either. We're doing every step we can as fast as we can, but this is something that takes time and it's all about baby steps..."

The SoHum RC collective was developed "to unify the Mattole Valley under a common brand and give it a place in the market of super high grade producers and old heritage farmers who have been producing [cannabis] for 30+ years," Stamm says. So their organization is acting as an umbrella - other farmers can come under their wing or can lean on SoHum RC for support with obtaining permits and developing their own branding.

Back to the farm: It's self-reliant, rural and completely off the grid. The water supply comes from two permitted wells and a rainwater catchment system. The mineral-rich well water is pumped out of the ground from 120 feet in the rocks, and plants love it - they get "fresh air, real air, fresh water, real water, no chlorine, no additives."

SoHum RC is working with a lot of CBD strains like *Harle-Tsu* and *Canna-Tsu* - both from the Southern Humboldt Seed Collective. They're crossing some of those CBD strains into some of their own genetics, some old school *Blueberry* and *M10 Hash Plant*. Another cool strain they've been working with is *Shark Shock: Skunk No. 1*

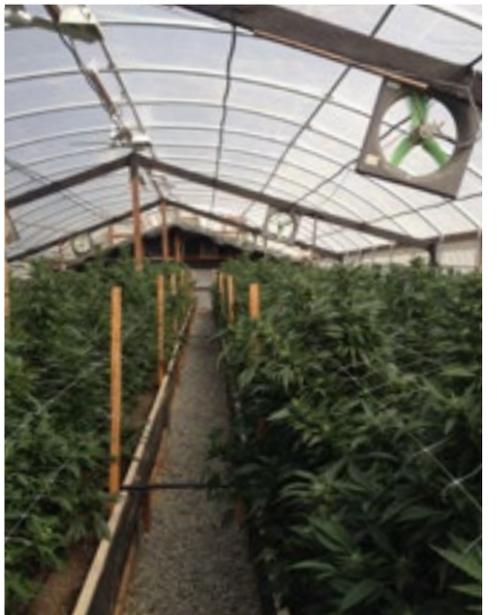
Widow - "Two old school strains make this new one that's just beautiful, frosted white and pillowy."

They also supply a Southern California-based company called "The Herbsmith" with cannabis byproducts for gourmet edibles that are distributed to about 150 different dispensaries.

The company is also developing effective "whole plant" extracts, including "gently processed and unaltered terpenes." They combine whole terpene profiles for maximum effects, and they work with doctors to help their patients put these customized extract medicines to work.

"We're always trying to evolve and innovate wherever we can to make things the highest quality with the least amount of energy input in all areas - from the employees' standpoint to the plants themselves."

I believe if more people bring consciousness to where their weed is coming from, if more people insist on a certain standard of quality for their weed, that will put places like this and other similar farms in the Mattole Valley in an elevated position. Everyone should insist that their weed comes from such a nice, clean and well-managed location.  You can find more information and links to social media online at SoHumRoyal.com.



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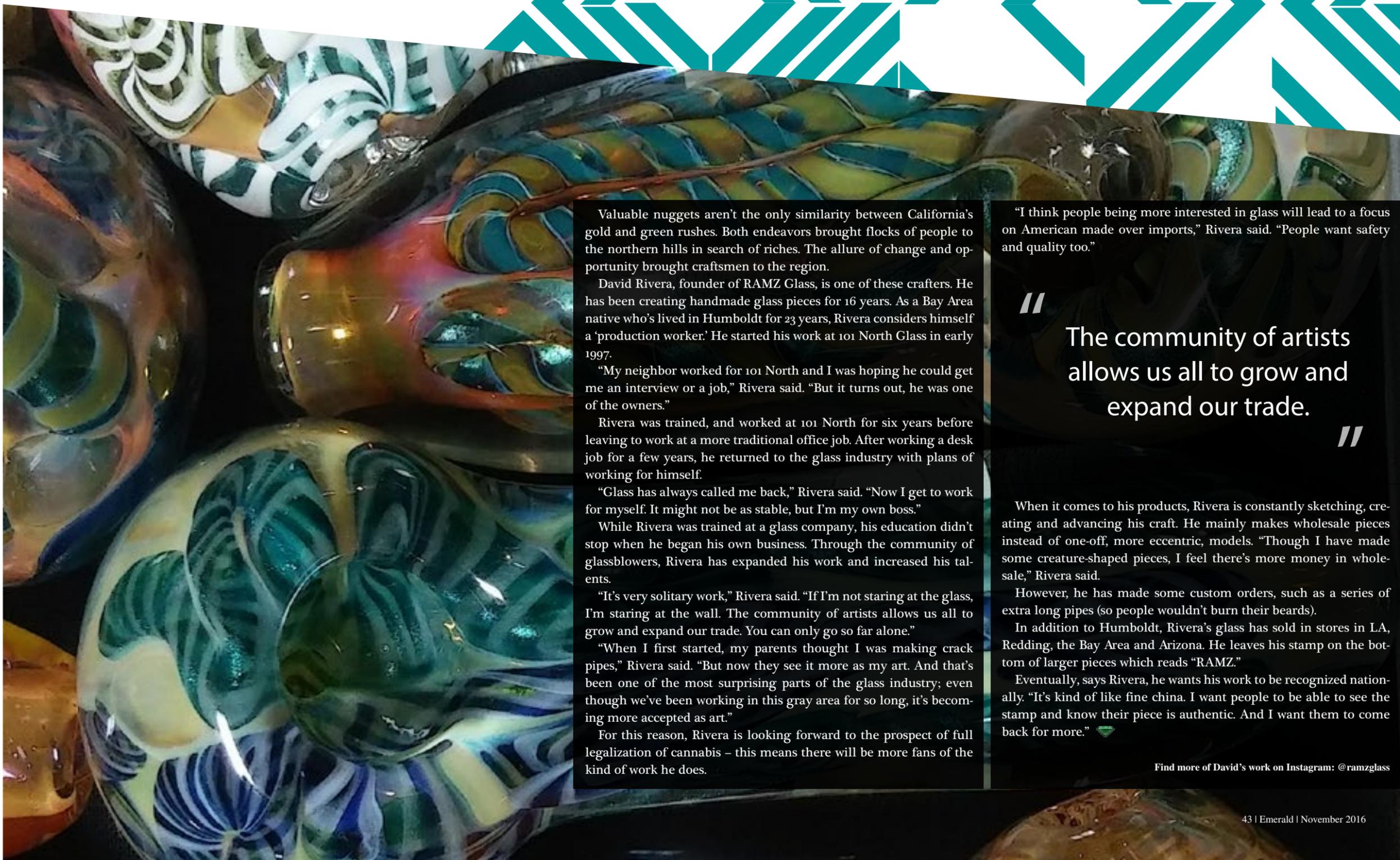


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RAMZ GLASS

Another fine product from Southern Humboldt

J E F F G A R D N E R



Valuable nuggets aren't the only similarity between California's gold and green rushes. Both endeavors brought flocks of people to the northern hills in search of riches. The allure of change and opportunity brought craftsmen to the region.

David Rivera, founder of RAMZ Glass, is one of these craftsmen. He has been creating handmade glass pieces for 16 years. As a Bay Area native who's lived in Humboldt for 23 years, Rivera considers himself a 'production worker.' He started his work at 101 North Glass in early 1997.

"My neighbor worked for 101 North and I was hoping he could get me an interview or a job," Rivera said. "But it turns out, he was one of the owners."

Rivera was trained, and worked at 101 North for six years before leaving to work at a more traditional office job. After working a desk job for a few years, he returned to the glass industry with plans of working for himself.

"Glass has always called me back," Rivera said. "Now I get to work for myself. It might not be as stable, but I'm my own boss."

While Rivera was trained at a glass company, his education didn't stop when he began his own business. Through the community of glassblowers, Rivera has expanded his work and increased his talents.

"It's very solitary work," Rivera said. "If I'm not staring at the glass, I'm staring at the wall. The community of artists allows us all to grow and expand our trade. You can only go so far alone."

"When I first started, my parents thought I was making crack pipes," Rivera said. "But now they see it more as my art. And that's been one of the most surprising parts of the glass industry; even though we've been working in this gray area for so long, it's becoming more accepted as art."

For this reason, Rivera is looking forward to the prospect of full legalization of cannabis – this means there will be more fans of the kind of work he does.

"I think people being more interested in glass will lead to a focus on American made over imports," Rivera said. "People want safety and quality too."

"The community of artists allows us all to grow and expand our trade."

When it comes to his products, Rivera is constantly sketching, creating and advancing his craft. He mainly makes wholesale pieces instead of one-off, more eccentric, models. "Though I have made some creature-shaped pieces, I feel there's more money in wholesale," Rivera said.

However, he has made some custom orders, such as a series of extra long pipes (so people wouldn't burn their beards).

In addition to Humboldt, Rivera's glass has sold in stores in LA, Redding, the Bay Area and Arizona. He leaves his stamp on the bottom of larger pieces which reads "RAMZ."

Eventually, says Rivera, he wants his work to be recognized nationally. "It's kind of like fine china. I want people to be able to see the stamp and know their piece is authentic. And I want them to come back for more."

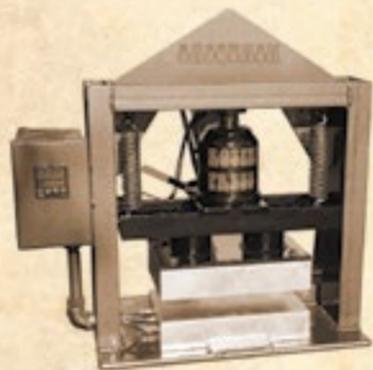
Find more of David's work on Instagram: @ramzglass



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3

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420Science.com
\$269.99

4

THE INCYCLER BY JACE POLETTI

The Incycler is a beautiful blend of form and function that allows for maximum flavor enjoyment. The piece utilizes color magnificently and is sure to serve both as a sculpture and a bong at home. Photo by John Mackey.

Exhale Smoke Shop
Sacramento, California
\$1,000

5

SHATTERED INNOCENCE BY JACE POLETTI

This piece is a cartoonish representation of how society handles the transition from childhood to adulthood, an emotionless beast ripping the head off your teddy bear. Photo by John Mackey.

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3

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1

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420Science.com
\$279.99

2

DRAGON HEAD STEAMROLLER PIPE

This large 12-inch glass steamroller pipe is fumed and decorated with stunning color work and clear magnifiers that create an amazing visual effect. The center of the steamroller features a glass dragon head, which makes this piece even more fierce.

GrassCity.com
\$159.20

3

WOOD-GRAIN OWL HAND PIPE

This 5.5" tall, fixed stem-to-two-hole diffusion pipe was hand-blown by Four Winds Flameworks in Oregon's Umpqua Valley. The husband and wife duo have always been inspired by owls, and their owls series of pipes are some of their best work.

MightyQuinnSmokeShop.com
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4

MOUNTAIN JAM GLASS SPOON PIPE

This hand pipe offers a deep bowl with a color-ringed carb hole. During the glass blowing process, precious metals held in the flame and the fume creates ethereal hues and color-changing effects on this hefty glass pipe.

GrassCity.com
\$68.00

5

HOME BLOWN GLASS INSIDE OUT ONE HITTER

The Inside out one-hitters from Home Blown Glass are fantastic examples of well done glasswork. These highly detailed pieces feature a mix of colors in silver fumed glass. They have a flat mouthpiece and built in roll stops along the body.

420Science.com
\$29.99



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1

FROG TWISTER GLASS PIPE

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Water-Bongs-Glass-Pipes.com
\$27.40

2

MUSHROOM CARB CAP DABBERS

These cap dabbers are the perfect addition to your accessories collection. Hand-blown by Jace Poletti in Sacramento, California, these caps will give you the perfect size dab with style and ease. Photo by John Mackey.

Exhale Smoke Shop
Sacramento, California
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3

EMPIRE GLASSWORKS POKEMON BALL PIPE

The next time you're out catching them all, pack this hand-blown piece from Empire Glassworks. The Pokeball inspired base has a 5" spoon handle, which makes it easy to bring out and about on all your adventures.

Kings-Pipe.com
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4

OCTOPUS GLASS HAND PIPE

This cute sea life inspired hand pipe was hand-blown by Apollo Glassworks, based out of upstate New York, just outside the Adirondack mountains. The attention to detail and creative use of color makes this pipe full of personality and beauty.

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Amazon.com
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- 5**

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Ryot.com
\$59.00

POT TALK

With Emily Hobelmann

A Rosin Potpourri



Since the inception of *Pot Talk* back in May, 2015, I've primarily written about collectives with an established brand, predominantly people that want to get their names out there. However cannabis is still federally illegal, and some people choose to farm and distribute it anonymously.

For this edition of *Pot Talk*, I acquired four varieties of "rosin" from two such anonymous folks in the Southern Humboldt community. Their aliases: "Don Benito" and "Marco Esquandolas." Their extract crew: Fully Awesome Rosin Tech.

Since this is the *Emerald Magazine's Glass Issue*, our friends at Trim Scene Solutions provided me with a Hard Times Glass rig to sample the rosin. Trim Scene Solutions is the Emerald Triangle's premier Harvest Headquarters, Smoke Shop and Glass Gallery. They host regular extraction safety demo events at their location in Southern Humboldt. (More info @trimscene.)



Back to the rosin: Have you tried rosin yet? It's solventless hash, made by pressing cannabis flowers between two heated plates to squeeze out the resin.

The resin is now collectible hash, or "rosin," ready for consumption. Now, there's the old school, low tech approach to making rosin -- using a hot hair straightener to squeeze a cannabis flower between two pieces of parchment paper -- the flower gets flattened

and the resin squeezes out onto the parchment paper. To smoke, scrape the rosin off the paper.

The rosin featured in this article, on the other hand, was made with a Dab Daddy Rosin Press (left). Their line of six and 12-ton hydraulic presses is manufactured right here in Humboldt County. Each press has a digital temperature control interface, and the larger version is designed so you don't need parchment paper -- it has "through plates," so the rosin gets squeezed out through the plates onto a silicone collection tray. You can use that big press to squeeze rosin from flowers, and also from water hash and kief.

According to Benito, warming and pressing the material to move the resin out is a really gentle process with the Dab Daddy. They mostly run their press at 200 degrees Fahrenheit, though Benito says anywhere between 150-200 degrees is viable. They find that the warmer the press, the higher the volume of rosin produced. The lower the temperature, "the better the flavor." At either end of the temperature spectrum, the consistency of the rosin stays about the same.

Benito and Esquandolas have pressed lots of different types of dried and cured flowers, plus water hash and kief (which Benito says "seems to settle more like shatter"). With each different strain and type of input material, they get a different output from the press. For example, they pressed 120 grams of cured *DJ Short's Blueberry* bud flowers and only got six grams of rosin. "But I used the same amount of flower for the *Chem D* and I got 20 grams," Benito says. "So every strain is different."

At room temperature, the rosin from Fully Awesome Rosin Tech is pretty darn gooeey. Benito advised me to put the rosin in the freezer to make it workable, more snappy, if you will. Benito also told me to let it "air off" a bit, let it sit for out for a couple days because "there's a smoothness that comes about and a more rounded flavor."

Another interesting thing they told me is that people are getting into freeze drying fresh harvested cannabis and putting that in the press. "And I hear the quicker from alive to press," Benito tells me, "the better the flavor." Live rosin, yo... "It's endless. There's a lot of different ideas."

Alright, so they provided me with four different flavors of rosin, all made from organic cannabis grown in the outskirts of Garberville, that's in Southern Humboldt County. Two samples were pressed from fresh cannabis flowers, one from kief and the other from ice water hash.

Here's the breakdown:



1. *DJ Short's Blueberry rosin*, pressed at 200 degrees from bud flowers grown outdoors and harvested in 2016. It smells mildly fruity, and the rosin glob is a nice golden brown. A dab off the Hard Times rig came on quickly and powerfully, clearing my sinuses and stopping me in my tracks. I succumbed to relaxation, the *Blueberry* left me no other choice.

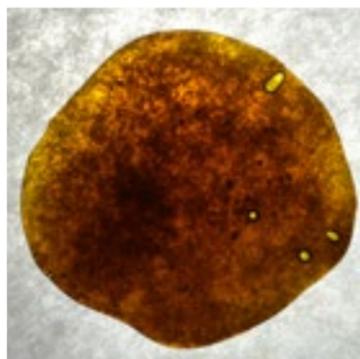
2. *Chem Dog rosin*, pressed at 200 degrees from bud flowers grown this season using the light deprivation method. It's got a bit of a green tint on the parchment paper, but it's mostly yellow. It smells earthy and acidic too. The rosin dab is smooth. The smell upon exhale is real clean, like a freshly harvested plant (as opposed to dried and burned flower). The high is heady, relaxing and mellow.



3. *Sour Diesel rosin*, pressed at 200 degrees from kief collected from outdoor flowers grown in 2015. The *Diesel rosin* smells nice and clean, like iced tea with lemon. It's got an iced tea color too -- golden brown goo. The high was a jolly one for me; a pleasant experience with lots of laughs and a carefree feeling. That's the ticket!



4. *OG Kush rosin*, pressed at 200 degrees from water hash made from outdoor flowers grown in 2015. Yup, I tried them all, and the *OG roz* was my fave of the bunch. It's all dark and goopy, then a beautiful golden glowing color when pulled thin. The smell is sweet, without a totally overpowering *OG*-ness. The high -- divine.



The rosin trend gains momentum as cannabis users seek healthier and more natural products. Thank you to Benito and Esquandolas for letting the world in on their quest to squish the best. 🍃



Today's Art, Yesterday's Paraphernalia

Remembering Operation Pipe Dreams

ED HUDDON

In 2003, hundreds of businesses and homes were raided across the nation in what was code named "Operation Pipe Dreams." The operation targeted large-scale pipe and bong distributors. Most remember it for the arrest and conviction of cannabis celebrity, Tommy Chong, but the multi-agency sting indicted 55 other people with the little known charge of trafficking illegal drug paraphernalia.

Using questionable tactics and resources that could have been used to fight hard drugs, DEA members set up glass producers by creating a fictitious business in Pennsylvania. The agents posing as head shop owners coaxed wholesale glass distributors across the country into selling them pipes and bongs. Once the merchandise was delivered, the agents obtained warrants and raided the businesses and employers from which they ordered glass.

One of those individuals was Jason Vrbas, former owner of 101 North and present owner of Glass House in Humboldt County, California. He currently teaches and sells everything glass artists need

to blow glass, but his former business, 101 North, was one of the first businesses to be raided during the operation.

Jason was courageous enough to tell us his story. I caught up with him at his shop in Arcata, California to hear his account of Operation Pipe Dreams.

101 North started out as a group of friends who blew glass together. Once the group reached about a half dozen, they saw a growing need for glass products. So, they took the steps to become a legitimate business. They rented a commercial building in southern Arcata and hired more and more glass blowers until they reached about 50 employees, eventually taking up five warehouses.

The business grew quickly as members traveled the country and met potential clients. In the first two years, the group began wholesaling glassware to head shops across the U.S. It was a dream come true for the group; they did what they loved, hired their friends and made a legitimate living while doing it.



That is, until 2003 and Operation Pipe Dreams. Jason and 101 North became a main target of the DEA. Even though he was running a legitimate business, paying taxes, wages, etc., he was unknowingly being staked out by the federal government. His life was about to change.

In early 2003, Jason and his co-owners were raided by DEA agents using paramilitary tactics.

The morning of the raid Jason didn't know why law enforcement was at his door. He was woken up at 5:30 a.m. to what he thought was a fire because there were so many lights flashing around his house.

"As soon as I reached for the door I heard 'DEA, search warrant!'" About 20 federal agents stormed his house – some in suits, some in full military garb – wielding laser pointed assault rifles.

He was tackled down a flight of stairs, and dragged into the front yard where he was handcuffed facedown in his underwear. At that point, he heard his girlfriend screaming inside the house. She was tackled in the hallway with a gun to her head screaming, "don't kill the dogs!"

A CUT ABOVE

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Cuffed and unclothed, Jason could barely make out what seemed like a full-scale military operation. “I had my head down in the grass and I looked to the side and saw people in military gear running all around the house, neighbors opening their blinds looking out wondering what was going on. I looked over to the road and there was probably about eight black SUV’s lined up.”

“I had no idea why they were there.”

Finally they took Jason back into the house. Federal officers threw him in a room where they interrogated him. They started throwing down paper after paper on the bed. There were search warrants for 101 North, Glass House and all of his properties.

Jason remembers seeing one local sheriff there. This officer seemed terrified and overwhelmed by the tactics used by the federal officers. He remembers the sheriff asking if he could cover Jason’s girlfriend who was in her underwear on the couch.

Jason had no idea his arrest was a part of the nationwide operation until Tommy Chong, who would become the trophy of the operation, reached out to him. Tommy had not yet been arrested, and was just becoming aware of the operation at that time.

The next day Mr. Chong was arrested. Reports of the national sting began to make headlines.

Jason had no idea his arrest was apart of the nationwide operation until Tommy Chong, who would become the trophy of the operation, reached out to him.



They eventually raided all his property -- breaking and smashing everything along the way. They never found any drugs, only pipes at 101 North.

This is when Jason learned he was one of 55 individuals who were indicted. Some time later, Jason and his partners were flown to Pennsylvania where they faced federal prosecution. It was a nerve wracking time, because Tommy Chong had been sentenced to nine months in prison by the same judge days prior to their court date. Jason said federal prosecutors “claimed our website was invading the bedrooms of the children of America.” However, 101 North never sold to individuals or over the internet. Their website was strictly promotional, for those over the age of eighteen and 101 North only operated in the wholesale of glassware. The group pled guilty to one felony ‘Conspiracy to Manufacture Paraphernalia,’ and was given nine months of home detention, and three years probation.

As Jason confided, “the end result of Operation Pipe Dreams more or less backfired on [the federal government],” he added. “The main thing was that they put a lot of tax paying Americans out of work... And now you can go to any liquor store and buy cheap pipes and bongs made in India and China.”

Nearly fifteen years later, it’s still a tough pill for Jason to swallow. He feels it’s an example of the failed War on Drugs, and as cannabis normalizes, it just doesn’t become any easier for him to accept.

Jason said, “I got a felony for conspiracy to manufacture paraphernalia out of a state that you can legally (medically) buy marijuana. It’s a federal felony so unless I get a presidential pardon, I can’t expunge it and it affects me for everything like voting, bearing arms and traveling to countries like Canada. Those are the things that bother me the most.”

Artisan Glassblowing with Good Glass Humboldt

S A M G R E E N S P A N

A new piece of glass isn't just the mere acquisition of a new piece to smoke from, it is, without sounding poetic, inviting a new sidekick into your life. It's a beautiful tool that will be with you for as long as you are able to keep it safe. It will go with you on road trips, to events, and in some cases, it'll even take on a character unto itself.

One of the first pieces that I ever acquired was with my friends the summer after we graduated high school. My friends and I chipped in on one smoking device that was pretty luxurious; in an instance of decadence that had previously eluded us due to fiscal circumstances. When we got our new best friend for the summer -- a three chambered water pipe that looked like something from Greek Mythology -- it seemed only natural to name this device 'Pericles.'

This, however, was over a decade ago. It has become clear since then that it's not enough just to make a tool that's functional anymore. It's also about cultivating one's voice through glass art, combined with the inspiration that the artist draws from their relationship to the community. Humboldt County has many options for places to acquire such pieces, but many of the stores around our delightful corner of the world only keep local artists in small corners of their shops. As such, it was a pleasure to conduct an interview with Northern California artist, Donald Good, of Good Glass Humboldt about what it means to be an artisan glassblower. Good focuses more on marbles and other pieces of purely artistic glassblowing, and less on smoking devices.

Emerald Magazine: What was your initial inspiration for pursuing glass art?

Donald Good: Glass chose me. I initially started blowing glass at 101 North. They approached me about employment after

discovering that I had experience working at Aim Kilns. That was my first experience with glass, and it was in a production atmosphere.

EM: Could you describe what a "production atmosphere" is and what makes that work for you?

DG: The production atmosphere is making the same piece over and over with some color variations but no creativity. It is meant to produce volume not necessarily uniqueness. My work since then has been geared away from production work, and much more toward creative and one of a kind pieces. Although the production background is still seen in my work through my free hider marbles, and my limited runs on certain styles. The hidere are pretty much the same marble over and over again in different colors, because I need to produce them fairly quickly as a giveaway.

EM: How long have you been in the business?

DG: In 1999, I started at 101 North in Arcata, California. In 2003, the Fed's Operation Pipe Dreams forced 101 North to close. I went underground to a friend's shop and continued to blow glass. [I was] unable to support myself as a glass blower. After that I pursued a "real" job, but always continued to blow glass.

EM: What are some of your future goals for your artistry?

DG: To continue to grow and gather skill sets as well, and move away from production and into more artistic endeavors. Collaborate with other artists, teach classes, travel, blow glass, blow glass, blow glass.

EM: You describe growth and gathering skill sets. What are some techniques you hope to master?

DG: I would like to learn as many techniques as possible. I would like to master the techniques of making Ratachellos, wig-wags, glass fittings, just to name a few... and even cold working techniques (manipulating the glass when it's cold-before and/or after flameworking the glass), like sand blasting and Dremel carving.

EM: How does Humboldt County and the culture therein influence your work?

DG: There is a large art culture that is very present in Humboldt, as well as a high concentration of glass blowers. Our scenery is my greatest influence...trees, ocean, nature, people.

EM: What piece(s) are you most proud of?

DG: A sea sculpture that I did for a charity auction, memorial space turtles, and my large marbles that incorporate inside and outside décor.

EM: Are you a perfectionist, or more of an 'in the moment' style artist?

DG: In the moment style artist all the way!

EM: Could you describe what it is like for you when you work?

DG: I am in the moment because the glass tells me what to make. When I show up at the shop in the morning, I do not usually have a specific plan in mind. Instead, I start [the] kiln, exhaust, and torch. I listen to the flow of the flame and pick up color, rod, and tubing and let the glass tell me what to do. It knows what it wants to be and I just listen. I've learned not to fight the glass; it will win every time and when a piece breaks, it wants to be something else. So I regroup, look at the new shapes and lines in the glass, and go from there.



EM: What's a dream piece that you hope to create?

DG: Sea sculptures that are larger. [I want] a lot of my work to get larger [and] increase scale.

EM: What else should we know about you as an artist?

DG: Family, friends, and music are also great influencers of my art. I am diverse in my techniques and my finished products. I am open -- willing to try new things. I want to grow and network throughout the glass and art world.

Donald Good of Good Glass Humboldt can be contacted through Facebook (where you might catch him glassblowing LIVE), and is available for pricing via private message. He is also available via Instagram and Twitter at the aforementioned name. Keep searching for great glass in your area! You're sure to find something fantastic in every community. 🍷

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Cheap Glass, a Thing of the Past

A New Age for Artisan Glass

JAMES PRIEST

There's a difference between artisan glass pipes and cheap China pipes from the gas station or smoke shop.

Artisan glass work has been around for thousands of years. Some of the earliest recorded pieces of glass work date back to 3000 BC in Mesopotamia and early Egypt. The process of making anything from glass was an extremely difficult one during this time period. For this reason, many artisan pieces of glasswork were small and quite expensive.

Fast forward to 30 BC in Rome. This is where working with glass went from glass molding to glass blowing, with the introduction of shaping glass by blowing into it with a blow pipe. This led to the birth of glass blowing as we know it today.

Cheap China glass is dangerous and illegal. Pipes from China are not allowed to be sold in the United States. In order for these pipes to make it into the country, they can't have a hole in the bowl. They simply have a mouthpiece hole and a carburetor hole where a piece of string is passed through it and is referred to as a necklace. This is one of many ways these pipes make it into the U.S. Once in the country, a small hole is drilled to complete the bowl.

The problem with this is when you, the consumer, go to smoke out of your new bowl that you're so happy to have, you could be inhaling glass shards into your lungs. The building up of glass shards in the lungs creates a disease much like Pleural Mesothelioma.

Another dangerous potential is lead based metal oxide paint. China uses this to create the color on the inside of the glass. In-

stead of using techniques like the artisans in the U.S. do to fume and color their glass, cheap Chinese knockoffs simply paint the inside.

When you want to avoid getting cheap low-quality glass that could be dangerous for your health here is a great option. Purchase your glass from a local artisan glass blower. Many times you can find someone in your region who makes exquisite glass pieces.

These artists have impeccable skills and talent when it comes to shaping and molding glass into beautiful works of art. Not only are they works of art, they are functional works of art, enjoyed by the cannabis community worldwide.

Nicholas Borophile of The Other Glass is my local artisan glass maker. Nicholas, 24, is from Colorado, and has a passion for the art of glasswork. Not only does Nicholas make heady glass pipes that are tough as a mofo, he makes some sick pendants (pendants) too! Nicholas could have gone down several roads like so many young men today. He took a turn into artisan glass and found a passion.

Nicholas says he owes a lot to the man who offered him a chance at something different, a chance to learn glass. That man was the talented artisan glass maker Malachi Cowan. Nicholas and Malachi are now business partners.

Nicholas's passion for glass and his dedication to the artisan craft has led him to a righteous path of light. The light of the torch. This light drives Nicholas to shape and mold functional works of art for the world to enjoy.



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I bought my first piece from Nicholas in Colorado at a little place called the Happy Shack. His work caught my eye immediately, so without hesitation I bought a piece! The piece that I named NOB even had Nicholas's initials stamped into it.

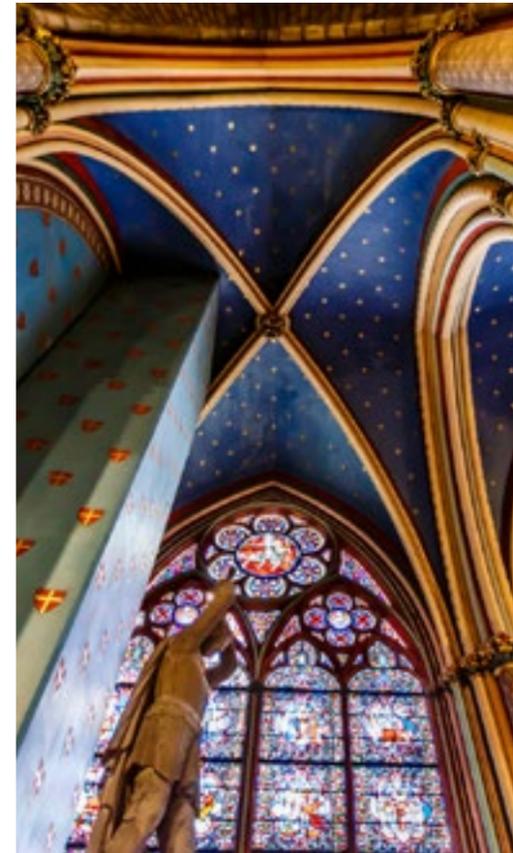
This bowl is very special to me as it was the first one that I had purchased where I had met the glass maker. It gave my bowl an intrinsic value to me that none of my previous bowls had ever had. Nicholas makes more than killer glass pieces and pendies; he makes works of art that become a part of people's day to day lives.

Nicholas only makes the finest quality glass products because he uses glass made in the U.S. The glass is such heavy thick glass you can bounce it on the ground – I have seen it in person when I bought mine. Check out a video of this being done on Nicholas's Facebook page.

When I asked Nicholas what he would like to say to the readers his reply was as follows: "Buy some glass. No for real it's a struggle for artists today. When you have a local in your area who does something great, no matter what that art may be, supporting that person helps put food on their table. That's helping to feed your neighbor and lets you get to know your community a little bit better."

Support your local community by supporting local artists. They add color and shape to our lives. Get to know your local artisan. You'll be glad you did. 🍷

For more information, visit Nicholas's Facebook page, [Facebook.com/borophile](https://www.facebook.com/borophile) or on [Instagram.com/bokeythesmear](https://www.instagram.com/bokeythesmear)



Glassblowing

An Ancient Artform with a Future of Innovation

MELISSA HUTSELL

From the stained glass featured in the gothic Notre Dame cathedral in Paris, to the windshields in our cars and the pieces we smoke cannabis from – the significance of glass cannot be understated when it comes to form or function. It protects us, it beautifies our surroundings and it certainly plays a role for the cannabis connoisseur.

Glassblowing is an ancient artform. The earliest recorded use of the material was by the Egyptians in 1500 BC, according to the American Scientific Glassblowers Society (ASGS).

Before discovering how to make the material, humans used obsidian – a naturally occurring glass created by volcanoes. This was used for tools, trading, currency and jewelry (HistoryofGlass.com).

Humans discovered that when mixing sand, heat and different materials, they could use the resulted substance to form decorative and functional pieces. Man had discovered how to make glass. Since then we've used it for art, storage, construction and everything in between.

This finely-tuned field was an advancement for humankind, as it has made the world a different place (ASGS).

The developments made by the Egyptians set the stage for glass-making within the Roman Empire where it flourished, according to Glass of Venice. The Roman government greatly supported glassblowing. The artform grew across the region, through the Mediterranean, Syria and Lebanon.

Over time, the introduction of the blow pipe and molds propelled the industry even further. This meant the glassware could be made cheaper, faster, easier. The art of glassblowing spread all over Europe, where the use of glassware for the body and home became popular (ASGS). In addition to the Murano Glass Factory in Venice, Italy, which held secrets to the trade, Germany and France became leaders in the industry.

Though different tools, variations and styles have been developed, the same glassblowing methods from hundreds of years ago are still used by today's artists.



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There are glassblowers across all industries, essential to the advancement and research of each, including: chemistry, physics, electronic and pharmaceuticals. Glass and scientific advancements have gone hand-in-hand throughout history. "Some notable examples include Galileo's thermometer, Edison's light bulb, and the vacuum tubes of early radio, TV and computers. The qualities of glass and the skills of those who fashion it have contributed more recently to the advances in industries and research in fiber optics, lasers, atomic and subatomic particles, communications and semiconductors."

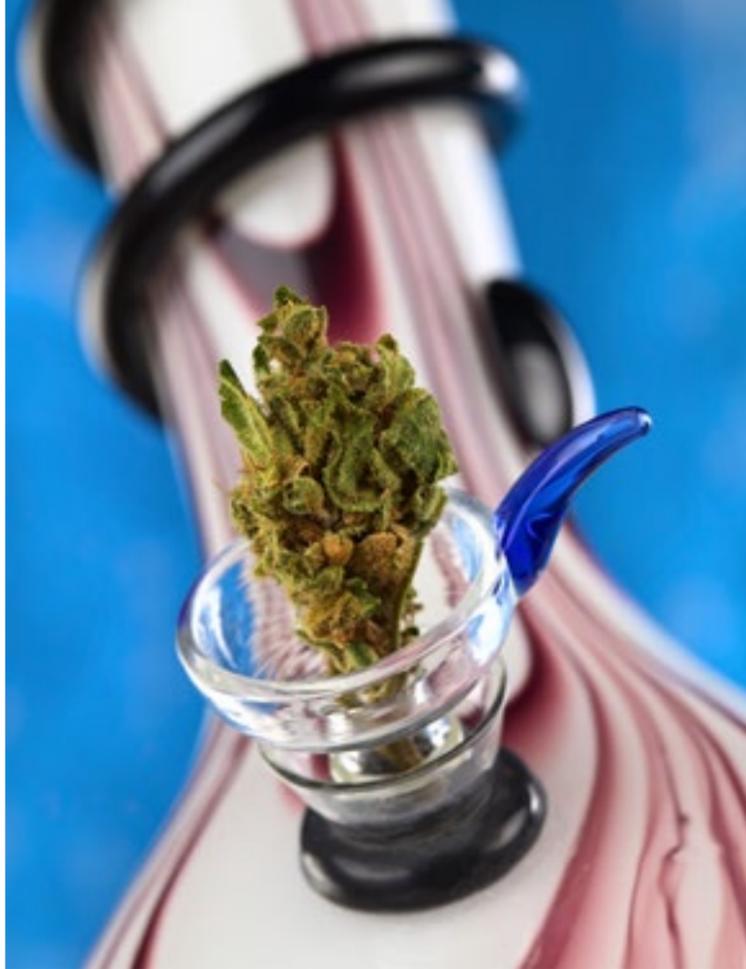
(ASGS)

The field has been influenced over time by many cultures; European, Asian, and African to name but a few. Now, cannabis culture is making its mark on the industry and pushing it to innovate in unfiltered ways that will only continue to advance.

Gone are the days of purchasing pieces without personality or artistic flare. Today's artists are able to incorporate detailed designs, perfecting their craft to offer pieces that are nothing short of sculptures made to smoke from.

Though there are still stigmas associated with the the industry, they are disappearing. Glassware is no longer known as 'paraphernalia'; it's art.

Without glass, the cannabis industry -- and the world -- would be quite different. 🍃



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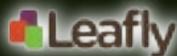


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