

Richard Chartier's graphic design practice is based in Los Angeles, California.

Chartier has cultivated notoriety for his clean, minimal, formalist aesthetic in design and typography. His extensive experience in graphic design and art direction including logos, annual reports, posters, invitations, books, fliers, packaging, branding style guides, and magazines as well as website art direction has led him to work with a multitude of non-profit art, culture, environmental, and educational institutions as well as for corporations and individuals.

Prior to his design consulting work over the past 20 years, Chartier served as senior designer and assistant art director for the non-profit organizations the Academy for Educational Development, the American Association of University Women, and VSA.

Chartier holds a Bachelor's of Fine Arts Degree in Graphic Design and Painting from James Madison University.

SELECTED PAST & PRESENT CLIENTS INCLUDE:

Aeterna Gallery, Los Angeles, CA

Allegra Consulting, Pasadena, CA

American Association of University Women, Washington, DC

Association of Performing Arts Presenters, Washington, DC

American Psychological Association, Washington, DC

Arlington Public Art Program / Cultural Affairs, Arlington, VA

Artisphere, Arlington, VA

Center for Craft, Asheville, NC

Cheryl Numark Art Advisory, Washington, DC

Editions Mego, Vienna, Austria

ETA, Los Angeles, CA

G Fine Art, Washington, DC

Galerie XX, Los Angeles

Genesis Block Group, Inc., Vancouver, Canada

Greenbuild, Washington, DC

Grillworks, Inc, Washington, DC

IHS, Englewood, CO

Important Records, MA

Intransitive Recordings, Boston, MA

Jennifer Chun (Fashion Designer) New York, NY

LA Animal Services, Los Angeles, CA

le Lieu Unique, Nantes, France

Local 16, Washington, DC

Loquasto, Inc, Los Angeles, CA

Los Angeles County, CA

Millennium Decorative Arts, Washington, DC

Modern Mobler, Washington, DC

NAF, New York, NY

National Council of La Raza, Washington, DC

NFS, Los Angeles, CA

Pasadena Arts Council, Pasadena, CA

Pasadena Water & Power, Pasadena, CA

PFC Energy, Washington, DC

Room40, Brisbane, Australia

Smithsonian Institution, Washington, DC

Steck Consulting, Washington DC

Temporary Residence, New York, NY

US Green Building Council, Washington, DC

VSA Arts, Washington, DC

Washington Performing Arts Society, Washington, DC

2062, Los Angeles, CA

PLIRI ICATIO

GRIDS 2nd Edition [Rotovision, UK] 2011

Packaging Identity by Pedro Guitton [Index, Spain] 2009

The Graphic Eye by Stefan Bucher [Rotovision, UK / Chronicle Books, US] October 2009

1000 Supreme CDs [Mao Mao, Spain] 2008

Best of Disk Art: Innovation in CD, DVD or Vinyl Design & Packaging [Rotovision, UK] 2008

GRIDS: Creative Solutions for Graphic Designers [Rotovision, UK] 2008

Supersonic: Visuals for Music [Die Gestalten, Germany] 2007

Print and Production Finishes for CD and DVD Packaging [Rotovision, UK] 2006

Brooklyn: New Style [Booth-Clibborn Editions, UK] 2005

Dos Logos [Die Gestalen Verlag, Germany] 2004

CD-Art [Rotovision, UK] 2003

Los Logos [Die Gestalen Verlag, Germany] 2002

EXHIBITION

35 mm/Apocrypha @ Sintesi Electronic Arts Festival [Naples, Italy] Dec 6-7, 2003

VS. @ Mutek [Montreal, Canada] May 29-June 2 2002 GROUP EXHIBIT

35mm | Design in Miniature @ Mutek [Montreal, Canada] May 29-June 2 2002

35mm | Design in Miniature @ Catalyst Arts [Belfast, N.Ireland] May 2001

35mm | Design in Miniature @ Lovebytes [Sheffield, UK] March 2001

AWARD:

Qwartz Award 2006 [France] Nomination for Best Packaging Design

Qwartz Award 2005 [France] Nomination for Best Packaging Design

98 SNAP EXCEL silver award for direct mail category

97 SNAP EXCEL silver award for direct mail category

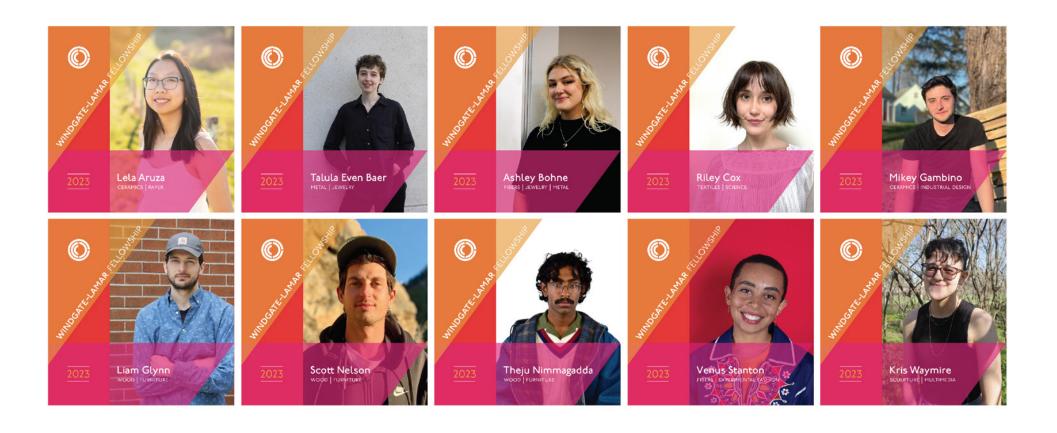
APEX 1997 award for design excellence Best Education & Information Report

APEX 1995 award for design excellence Best Small Magazine Design

Richard Chartier Design

Los Angeles, CA

chartier@3particles.com



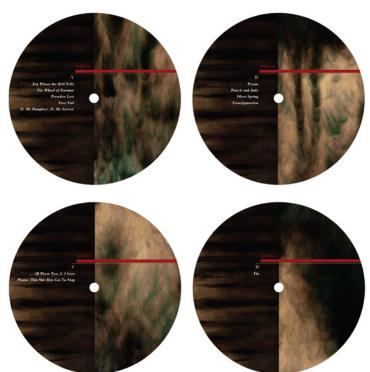




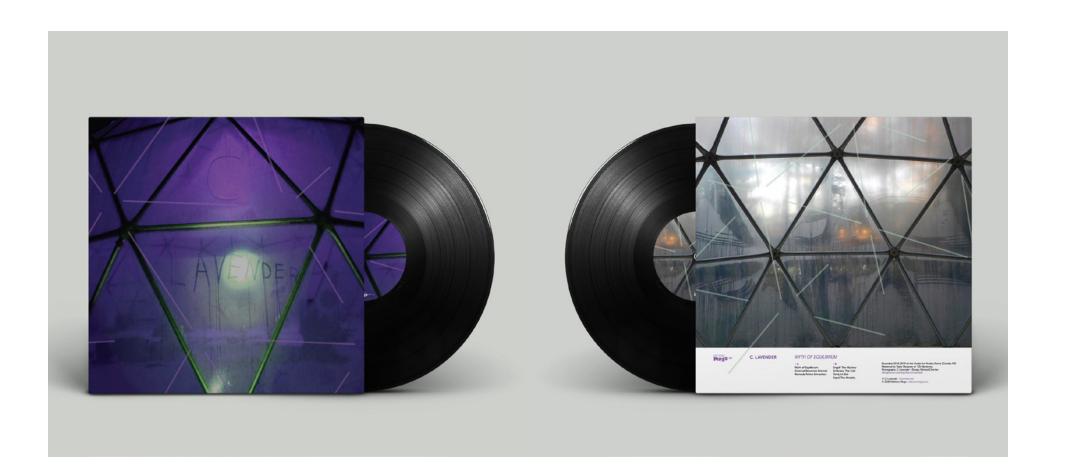








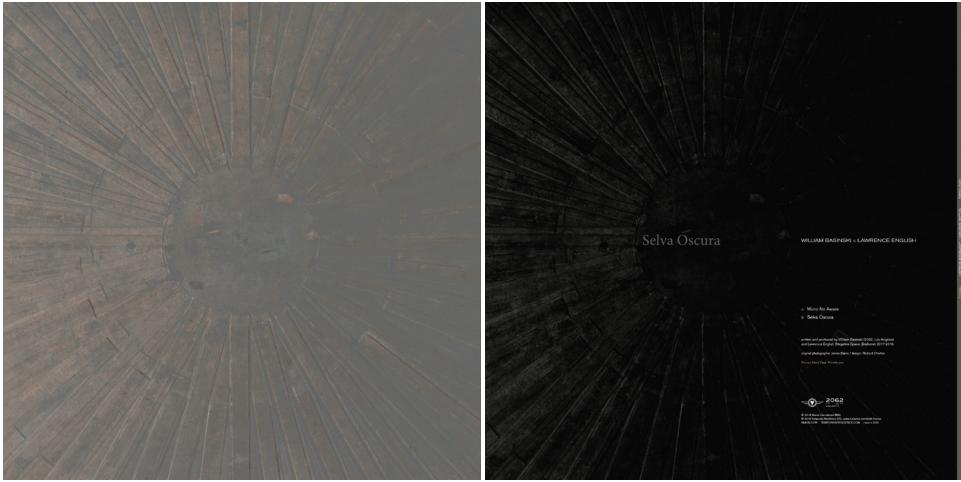


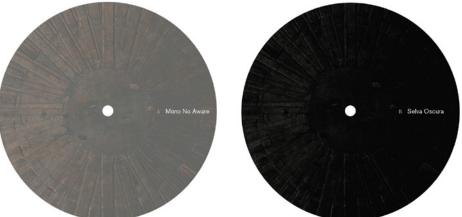




CLIENT Editions MEGO (Vienna, Austria)
PROJECT 12" vinyl record packaging

CLIENT mAtter (Japan)
PROJECT double 12" vinyl record packaging









CLIENT Temporary Residence (New York)
PROJECT 12" vinyl record packaging



By investing in NAF, you are joining a movement to dramatically improve education and workforce development, close the skills gap, and break the cycle of poverty.

By supporting NAF, you are ensuring all students have the chance to Be Future Ready.

NAF's new initiative, Future Ready Labs, transforms futures through paid internships

To many people, I became a disappointment. Many people believed my only option was to drop out. They didn't see the greater motivation I had to become somebody, to make my son proud, to provide for my family."

latest initiative, Future Ready Labs. and skilled talent pipeline.

Launched in summer 2017. Future NAF's Future Ready Labs were made the pilot in Dallas, Texas; Eden Prairie, Minnesota; and New York, NY.

"Last November, I became a NAF Future Ready Labs are an exciting statistic. I became a teen parent. opportunity for students to get hands-on experience in a work environment. With support from our corporate sponsors. of value to the partner. Throughout professional skill-building workshops, connect with professionals who serve as project mentors, and get to hear from dynamic speakers. NAF makes it easy for the employer to scale internship experiences by addressing the obstacles companies may face in providing these opportunities—such as location, supervision, and project management. As a result, corporate partners are able Daniel Uribe is a senior at Justin F.

Kimball High School, and one of the first
the internship process while still students selected to participate in NAF's meeting their need for building a diverse

Ready Labs are an innovative concept designed to bring many more with the following companies: meaningful, paid internship experiences Capital One; Optum; and a unique to high school students like Daniel. Callaboration with KPMG, Verizon, and the NYC Academy Foundation.



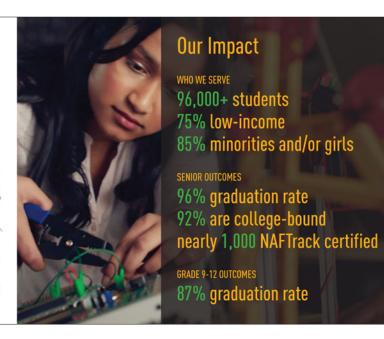


NAF alumni are filling the talent pipeline and bringing us closer to closing the skills gap.

able to stay connected to NAF and its roster of NAFTrack partners, growing number of companies that

advocates that grows by over 20,000 consideration in their hiring processes. people each year. We are a network of career advisors, connectors, and profile to showcase their work to cheerleaders who can support each potential employers, access internship cheefieeders who can support each other as we manipate college, enter the workforce, and build our careers. We are a deep latent pool that, through our finely-honed, fluture-ready skills, are ready to add walue to companie a carest the country," said Shatiek Catlin, NAF alluminus from the High School of and more companies are recognized of Economics and Finance in New York.
Shatish is now after the Charles of the potential AT ATS. Capital One; Shatish is now after the Very NAF. Economics and Finance in New York.

Batteris kin or of thousands of allumin who will now have access to the new MANT Finance F and graduate high school, they
become NAFTrack certified graduates.
Through this certification, they will be
and Xerox Corporation have joined the







GUINNESS WORLD RECORDS™ Title Set with Capital One

Capital One teamed up with over 650 Dallas 9th graders from 19 NAF academies and broke the GUINNESS showed what can be accomplished WORLD RECORDS™ title for the largest computer programming **(**

lesson, smashing the prior record! Three hundred employee volunteers from Capital One coached students through the coding exercise in an event called Monster Jam. Emmy Award-winning talk show host Mario official adjudicator was also present

Closing the Gender Gap in STEM with Western Union Foundation

past school year were women. NAF for Best Nonprofit Video of the Year! partnered with the Western Union oundation through its Education for Better Campaign to challenge the public to open their minds about the changing face of STEM careers and the importance of lifting young

where the women are in STEM—girls future for all young people. NAF need someone to relate to!" said released a new video designed to turn industry expectations on its head and Engineering student. NAF is helping to promote girls in STEM. The video was diversify the future STEM workforce. Forty-four percent of NAF's students views and came in second place in the in STEM-themed academies this DoGooder national video competition

Transforming the high school experience

The NAF Impact on Graduation Rates

performance data—culminating with a four-year high school graduation rate. The ability to track students over their entire academic career sets NAF apart from other organizations and represents our ability to demonstrate impact across nationally

Our latest report, "Transforming the High School Experience," prepared by ICF, represents the first time that we are releasing new data on students' four-year high school experience and graduation outcomes. During the years of the study, the average US high school graduation rate was 81.9%, which is reflective of all schools nationwide, while NAF primarily works with underserved schools.

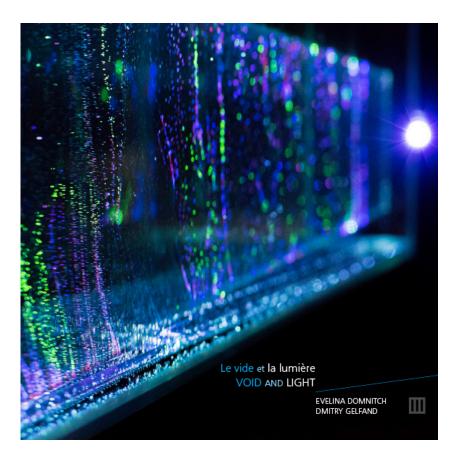
ICF's data shows that the graduation rate increased by 10% for at-risk students who completed four years in a NAF academy.

AT-RISK NAF STUDENTS HAD A HIGHER +10% GRADUATION RATE THAN NON-NAF STUDENTS WITH FULL-PROGRAM PARTICIPATION

RATE THAN NON-NAF STUDENTS



NAF IMPACT REPORT 2016-2017 13





COCKY EEK codgeek.com THEUN KARELSE thounkarelse.net

RAUL PRUDENCE paulprudence.com













create immersive sensory environments that meld physics, chemistry, and Domnitch graduated in 1994 with a degree philosophy together. After collaborating with prestigious research laboratories around the world and participating in the most important international technological art gatherings, Lieu Unique

They have been inseparable since meeting in the US in 1998, and thrive on the same is proud to host their first solo exhibition read to uncerstand the wond that their first solo exhibition readed us, from the cosmos to the infinitely. Because these scientific notions are difficult four honorary mentions at Ars sectronica (2007, 2009, 2011, 2013). In order to create their works, they have collaborated

Evelina Domnitch and Dmitry Gelfand Based in the Netherlands, these two visual From 2008 to 2011, they were members of in principiny are premiumentungs, order in the internations and performance, via solitimate solitizations and performance and as a unique experiment takes place every day

> small, revealing all of its poetic beauty. They
> do this by transposing scientific knowledge
> Gelfand attempt to transpose them through a and experiments to the realm of visual arts, sensuous and spacious approach that entails installations and infirmate sensuoial experiments revealing all informed sensorial separ-more mending all of the peetic gase. The eshabition, de visit et à la mime, therefore invited the public to embade upon a potounal, preceptual journey between light and empirers and the very lateral production in the lateral production between light and empirers and the very nature of perception in lett. To lead the light-field epipolation, Evelina Dominità and Demity Gelferd pioned bisses with and Demity Gelferd pioned bisses with Thesis Morella, audiovisual artic Plast Thesis Morella, audiovisual artic Plast Thusberd, sound artic Richard Chartier, as we'll as scientists Alexander Mitteen and Jean-Marc Chartier.



Des sons à haute fréquence propagés dans un cylindre rempli d'eau provoquent l'éclatement de petites bulles d'air. Le son ne fait que déclencher l'éclatement, en réalité alimenté par le vide à l'intérieur des bulles, qui aspire l'eau qui les entoure. Ces implosions élevées que celles du Soleil. Un laser blanc illumine ces bulles, les conque comme un environnement pour percevoir visuellement le

oglinder, prompting naturally diffused air bubbles to implode.

While tracing the motion imparted by sound waves, these implosions are accompanied by shock waves, jet formations, and conjecturably diverse quantum effects.

High frequency sound waves propagate through a water-filled

Initially conceived as an environment for visually perceiving sound in three dimensions, *Implosion Chember* plunges deep into the paradoxical origin of all vibrations: the ubiquitous vacuum. The trillion-fold energy amplification that occurs during acoustic cavitation could only be possible by tapping into the unbridle power of emptiness. What appears to be empty, motionless and infinitesimal, is upon closer inspection an inexhaustible



Emptiness, Light, and the Quantum Uncanny

I met Evelina Domnitch and Dmitry Gelfand for the first time in Riga, at the dawn of the new millennium. With their sculpted hair, they looked like visitors from another planet. They told me about the magical experiment of their sonoluminescent aquarium at the Museum of Dreams in Saint-Petersburg—a palace of mirages devoted to the unconscious worlds of Sigmund Freud. The work invited you to enter a pitch black space. Once your eyes adapted to the absolute darkness, they would begin to detect the luminescence of sonic fields floating around you. And you would imagine spending hours there, amidst this infinite, alchemical clepsydra, experiencing the greatest lysergic travel the world has to offer... And yet, these two psychophysicists were very much earthlings, sharing their taste for looking at physical reality "of the third kind" like no one else.

Many years later, Evelina Domnitch and Dmitry Gelfand are still on a Prepare yourself to enter the dark lab of our alchemists, pre-dilate your overlook the magic of the perceptual voyage these two artists offer. For cosmic and molecular scales. that, there is no greater introduction than letting yourself be carried away by the very poetry of the words used to describe their art—since away by the very poetry of the words used to describe their art—since their very first works, where they created pulsations of glowing rain.

Even Chardronnet is the author of Mojave Epiphanie (Inculte, 2016), a secret history of the American space program. Let yourself be hypnotised by shockwaves, propulsions and photonic emissions; the magic of anti-penumbras and oscillating halos; startling sensations of iridescent depth; unfolding the optical splendour and suprematism of cosmic interactions. Marvel at the beauty of electrical fields awakened by an opalescent ray; suspended prismatic overworlds and high-frequency sonic cavities; combinatorial palpitations of spheroids displaced by an acoustic flux; the opto-auditory consciousness of space-time itself. Be amazed to encounter the microgravity of a bubble cosmos: photo-molecular interactions during the birth of stars and the paradoxically ubiquitous vacuum underlying all vibration.

quest to open new doors of perception, and their passion for physical pupils, open your eyes nice and wide, because you are about to change phenomena has led them to seek out fundamental physics labs all over dimensions and enter a Zen-like experience of emptiness, where the the globe. But seeing nothing more than science in this would be to teleportation of light will reveal to you the quantum strangeness of

Pour l'exposition Dmitry Gelfand et Evelina Domnitch ont invité deux artistes, Cocky Eek et Theun Karelse. Ces artistes ont imaginé un dispositif scénographique sculptural immersif.

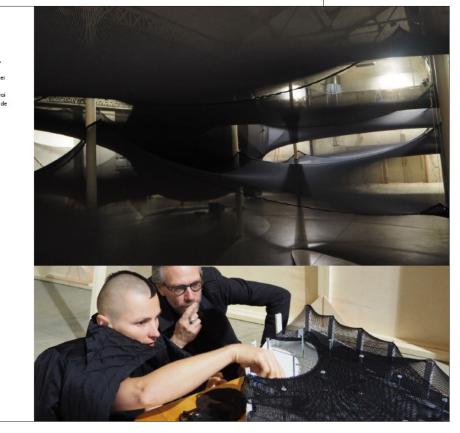
Ces artistes ont imaginé un dispositif scénographique sculptural immersif. Créée in situ, Fascia se déploie dans les 1200 m2 de la Cour du lieu unique. Fascia est composé d'une superposition de couches de tissu résille à grosses mailles. Stratifiant l'espace d'exposition comme une nébuleuse cosmique. L'espace devient inexplicable. C'est un espace pensé pour déambuler, ce qui permet au visiteur d'atteindre un état d'esprit macroscopique capable de couvrir de vastes distances. En se déplacant au milieu de ces strates. le visiteur peut également passer la tête au travers de perforation de la surface du Fascia pour découvrir diverses topologies.

Contrairement au Fascia, la sphére flottante, intitulée Non-localité, est conque pour une vision microscopique. Le visiteur peut y passer la tête, laissant derrière lui le reste de son corps dans le macromonde du fascia. La paroi intérieure de la sphère est aussi une surface de projection, en lien avec l'œuvre Force Field.

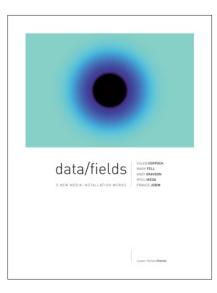
For the exhibition, Evelina Domnitch invited artists Cocky Eek and sculptural scenographic intervention.

Created in situ. Fascia unfolds into the 1200 m2 Court of Lieu Unique. Fascia consists of a superposition of semitransparent Theun Karelse to imagine an immersive membranes. Stratifying the exhibition space like cosmic nebula, Fascia's spatiality for wandering, allowing the visitor to reach a macroscopic state of mind, capable of covering vast distances. While roaming through these strata, one may also traverse perforations in Fascia's surfaces to discover diverse topologies.

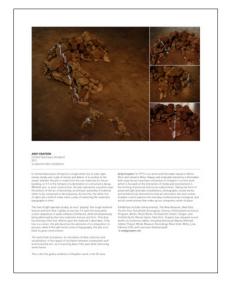
Unlike Fascio, the floating sphere, entitled Non-locality is conceived for microscopic vision. One may insert one's head inside, leaving behind the rest of one's body in the macro-world of Fascia. The inner wall becomes inexplicable. It is a space conceived of the sphere is also a projection surface in connection with the artwork, Force Field.



CLIENT le Lieu Unique (Nantes, France) PROJECT 42-page exhibition catalog for artists Evelina Domnitch and Dmitry Gelfand



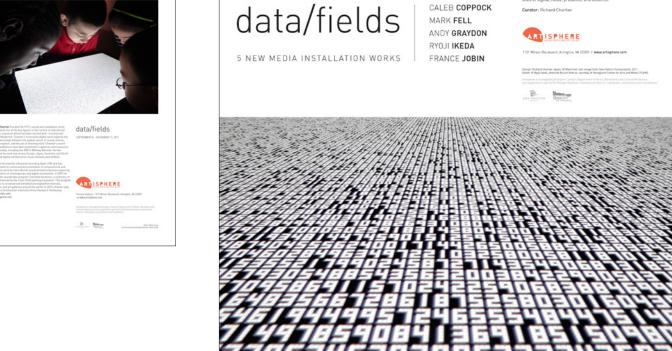


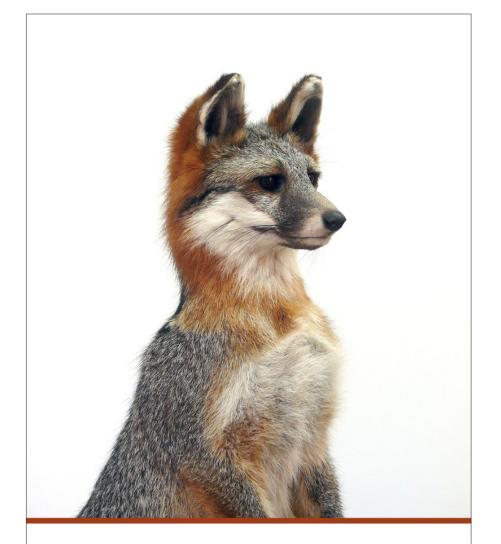






CLIENT Aeterna Gallery (Los Angeles, CA) PROJECT exhibition poster series





Heimir Björgúlfsson

You never know what worse luck your bad luck has saved you from

March 11- April 3, 2016



AETERNA



Jon Wozencroft



An Ambivalence Toward Trends: 34 Years Of Touch

April 8 - May 22, 2016











CLIENT Genesis Block Group, Inc. (Vancouver, Canada) PROJECT logo design

CLIENT Pasadena Water & Power (Pasadena, CA) PROJECT programmatic visual design

CLIENT Los Angeles County (Los Angeles, CA) PROJECT programmatic logo design

CLIENT Pasadena Arts Council (Pasadena, CA) PROJECT logo design + 50th anniversary rebranding





CLIENT NAF (New York, NY)
PROJECT convention logo design

CLIENT Sonar (Baltimore, MD)
PROJECT logo for monthly electronic music event









NATIONAL ACADEMY FOUNDATION

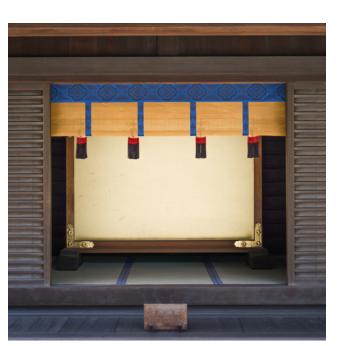
CLIENT CulturalDC (Washington, DC)
PROJECT proposed rebranding series of affiliated logos

CLIENT NAF (New York, NY)
PROJECT 30th anniversary logo

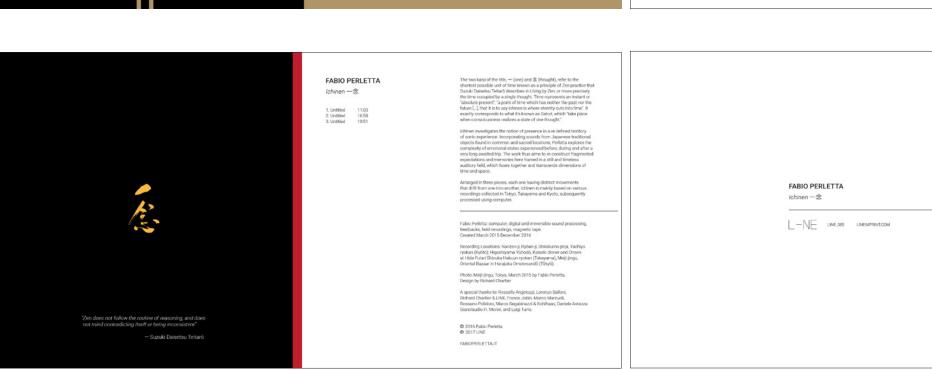


SOUND ART EDITIONS
EST. 2000





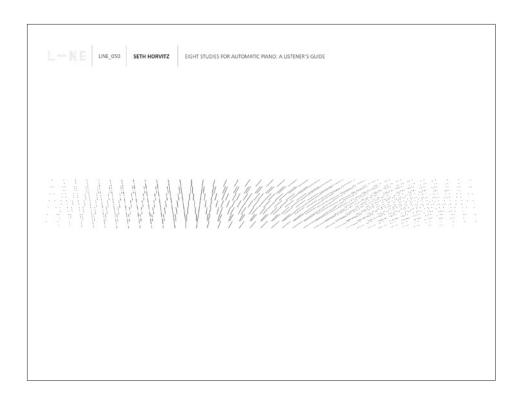




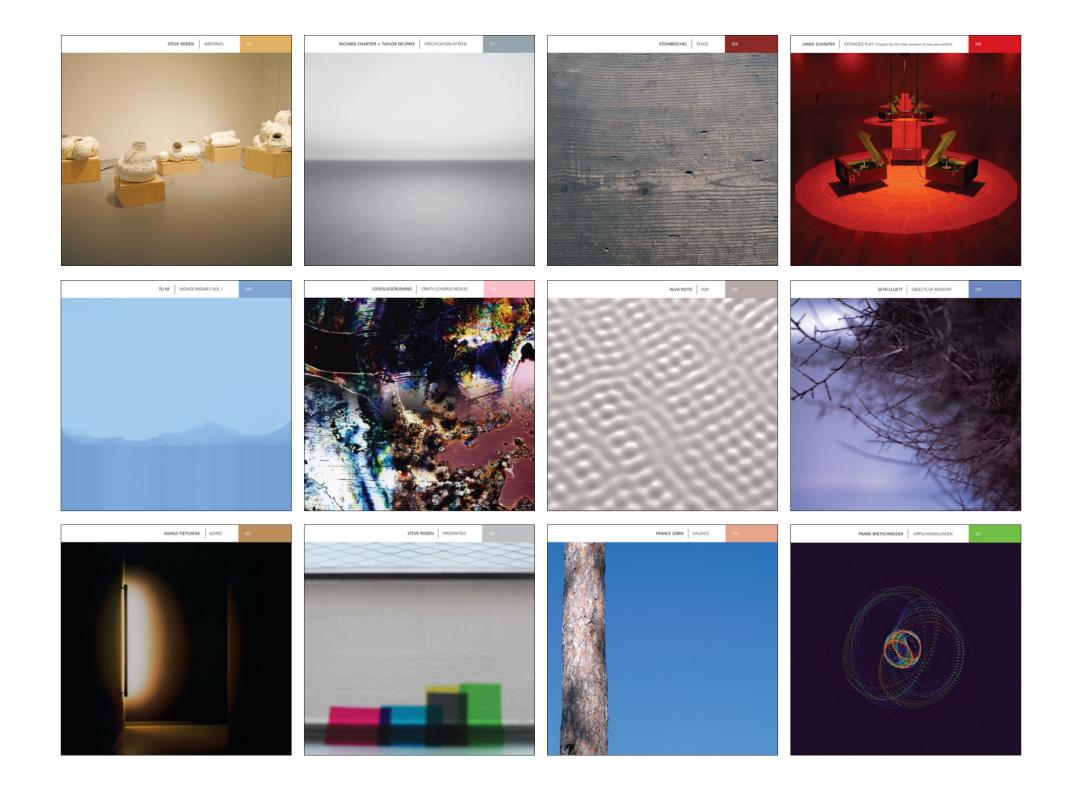
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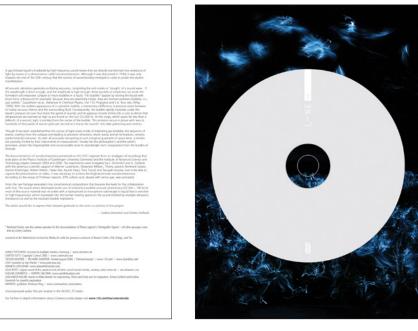












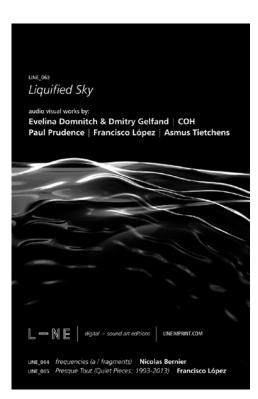


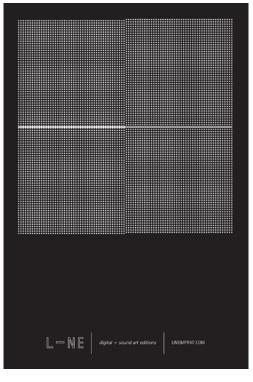




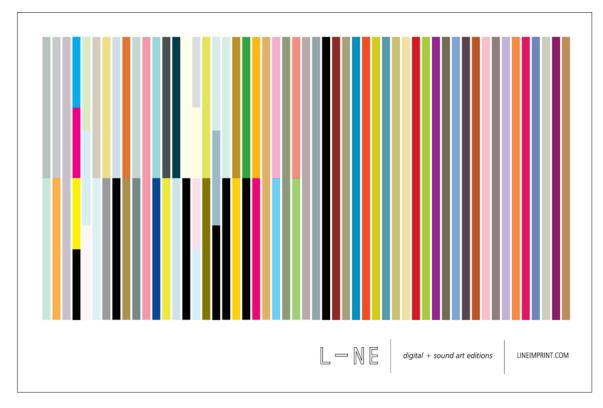


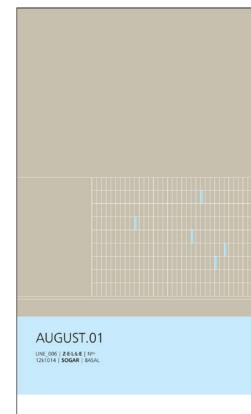


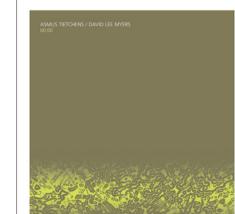


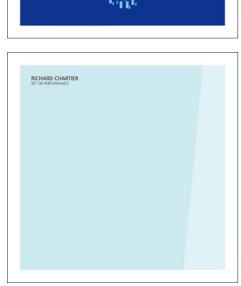


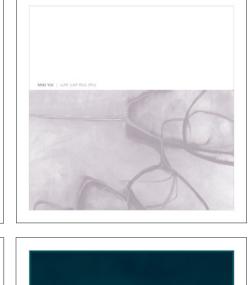




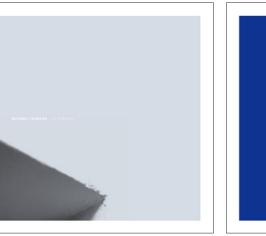


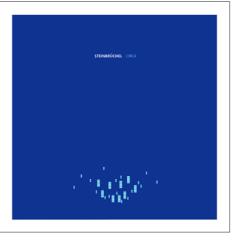




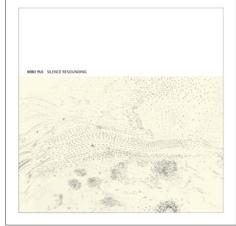




















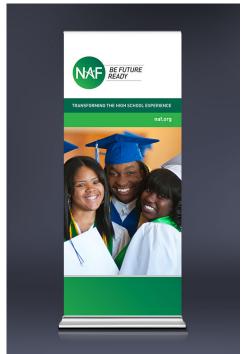
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- < 12k1012/UNE_004 | V/A | BETWEEN TWO POINTS

- < 12k1010 | KOMET | RAUSCH < 12k1011 | SHUTTLE358 | FRAME < 12k1013 | TAYLOR DEUPREE | OCCUR > 12k1015 | GOEM | ABRI

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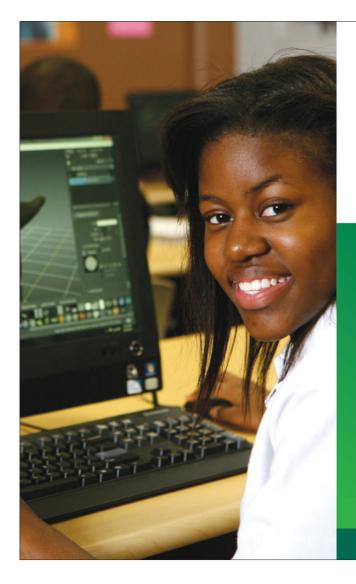














Annual Report 2014-2015

Dear Friends,

Letter from the Founder/Chairman & the President

38 states, including DC and the US Virgin Islands—that is an increase of 16% in the number of students we are preparing for the future in the last year alonel Furthermore, NAF academies reported 97% of seniors graduated in 2014 with 93% of graduates planning to go to college, rates that are significantly higher than their peers.

That's because NAF's educational design ignites students' passion for learning and gives businesses the opportunity to shape America's future workforce by transforming the high school experience to include STEM-infused, industry-specific curricula and work-based learning, including internships. NAF solves some of the boardroom to the classroom.

we have seen as a network, we are thrilled to officially roll out our new name, tagline, and accompanying look. Be Future Ready builds on the success we have achieved in over thirty years of ensuring young people reach their full potential while bolstering the nation's workforce pipeline. With innovations like NAF Track Certified Hiring and our increased STEM focus across all themes, this is a pivotal moment for NAF and we have committed significant time and resources to lifting the

The growth NAF has seen over the past few Be Future Ready will also amplify our position years is tremendous, with thousands more in the national movement for college and

All of these efforts are a culmination of During the 2014-15 school year, nearly 82,000 five-year strategic plan made possible by students attended 667 NAF academies across the generous support and investment of our Board of Directors and corporate, foundation, and philanthropic champions who are leading NAF's \$50 million Capital Growth Campaign. The Campaign has ignited unprecedented levels of commitment and generosity, and we are inspired by the limitless "future ready"

brought us to this exciting moment, where it is time to re-launch and make not only our success, but also NAF solutions to our nation's challenges, known to many, many more! NAF is committed to innovation and can ensure that everyone-from students to internance. New solves some or the biggest challenges facing education and the economy by bringing educators, business, and community leaders together to bring the until it's done!

Thank you for all you do, To build on the incredible growth and success

> Sapra / Whil Sanford I. Weill. Founder & Chairman, NA/ SH_

> > JD Hoye Fresident, NAF



NAF by the Numbers one graduate at a time.

academies 38 states including DC & the US Virgin Islands

△ 🌣 😝

A STEM enabled core

supports all NAF themes

190 school districts 106 new academies in development

themes 16% Engineering 32% Finance 12% Health Sciences 15% Hospitality & Tourism 19% information technology

6,610 internships completed in 2014

NAFTrack partners including

5,570

55% male 45% female

of NAF students

of NAF students qualify are black or latino for free/reduced-price lunch

2014

5,573,653

17,923,418

23,497,071 5 19,229,677

O793,200

Donors \$999,999 and below

and individuals who help realize our shared vision of knowledge, and experience needed to thrive. All of this work would not be possible without the support of our generous funders.

nancials

BALANCE SHEETS \$ 472,638 9,566,109 640,793 177,551 7,732,754 2,122,67 \$ 21,129,251 \$ 1,559,192 219,297 2,1085 1,899,574 4,646,748 4,624,969 5,0000 19,222,677 \$ 21,129,251 CASH AND CASH EQUIVALENTS CONTRIBUTIONS AND GRANTS RECEIVABLE, NO COMPRECISIONS AND DEATHS RECEIVABLE, NET OTHER RECEIVABLES, NET OF ALLOWANCE OF \$1 PREPAID DEPENDES AND OTHER ASSETS INVESTMENTS FURNITURE, AND FORTURES, NET TOTAL ASSETS LIABILITIES AND NET ASSETS ABILITIES:
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PERMANENTLY RESTRICTED 23,497,071 25,023,537 TOTAL LIABILITIES AND NET ASSETS

2014

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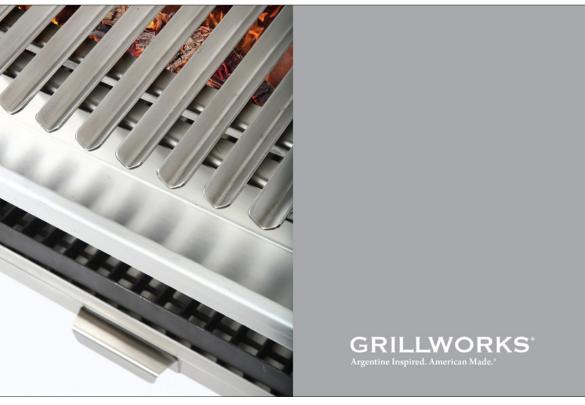
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UNIT AND THE RECIPIENT
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PROGRAM SERVICES
SUPPORTING SERVICES:
MANAGEMENT AND GENERAL
FUNDRASING

INCREASE [DEGREASE] IN NET ASSETS.

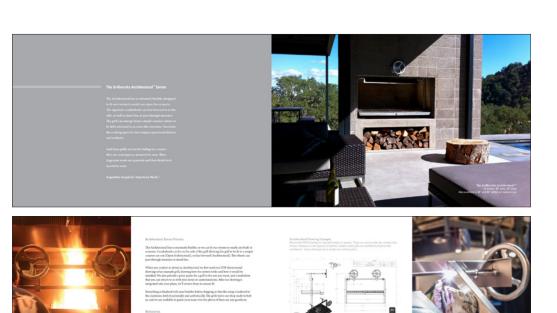
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CLIENT NAF (New York, NY) PROJECT annual report



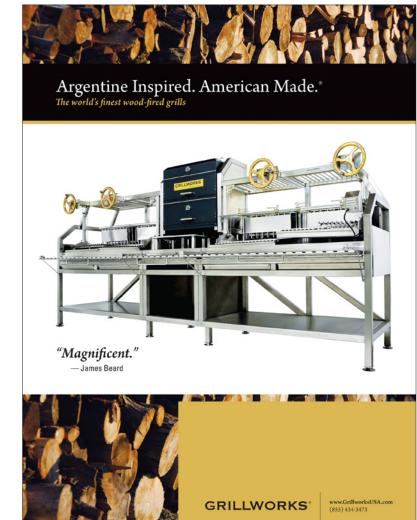


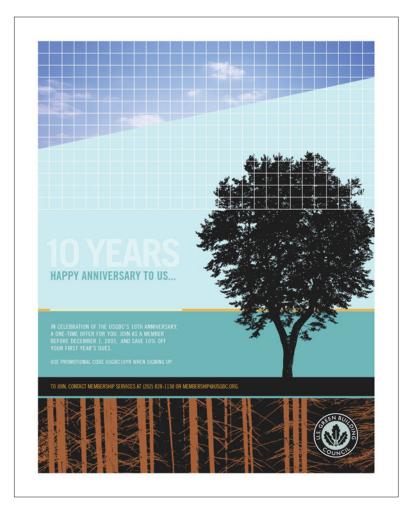


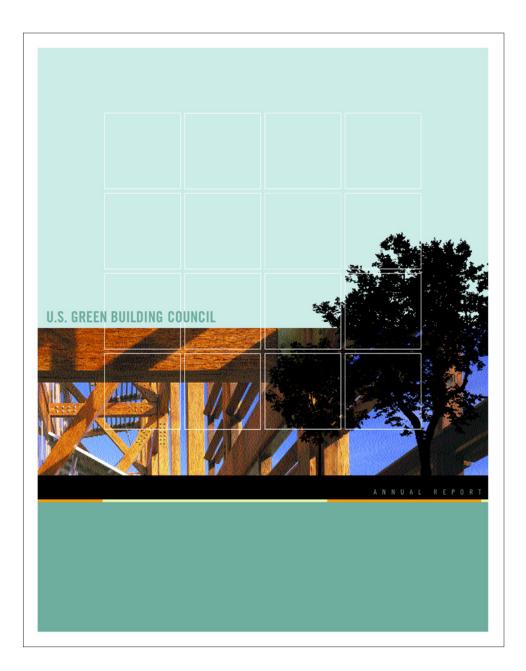


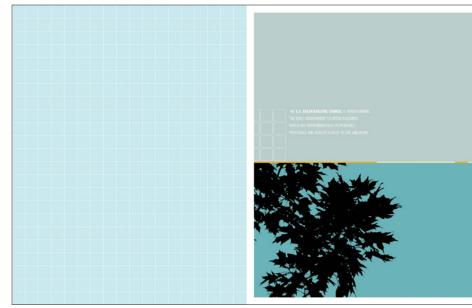


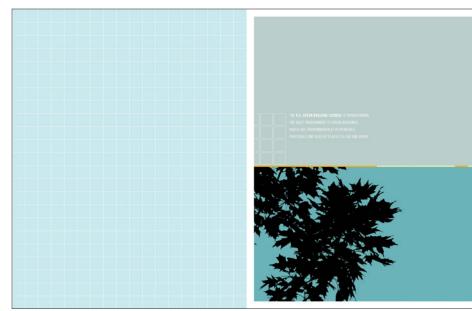












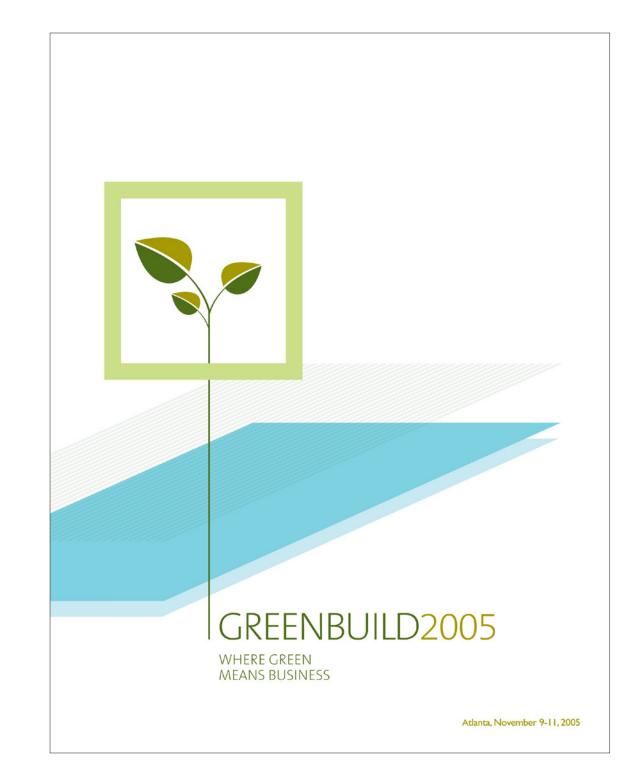






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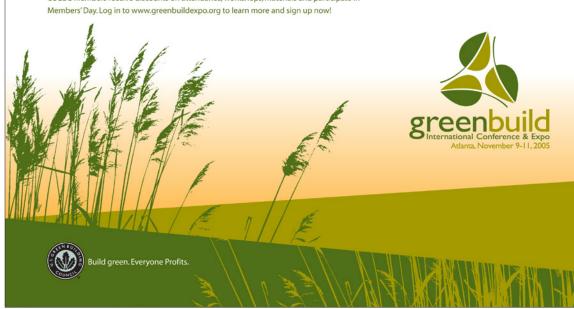
MEMBER DISCOUNTS

OVER 450 EXHIBITORS

PRE-EMINENT KEYNOTES

GREEN BUILDING TOURS

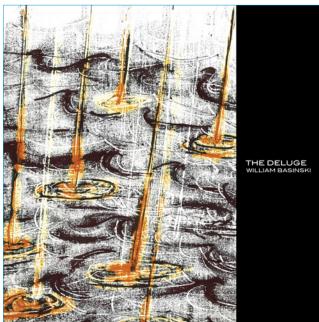
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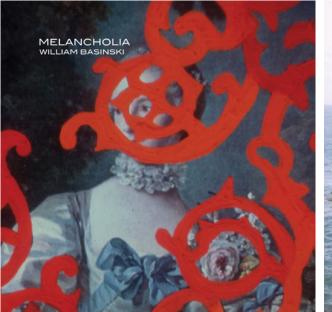


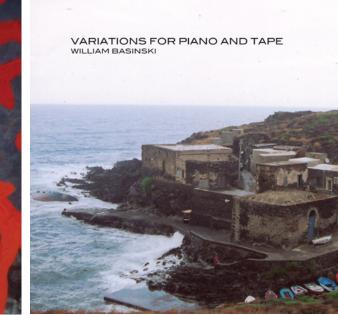


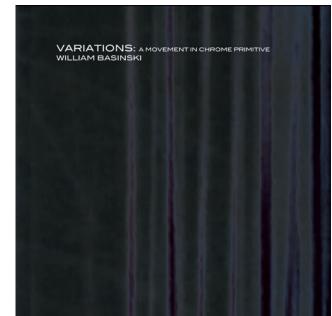


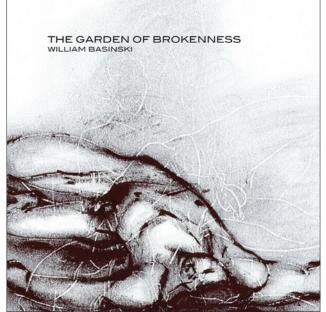


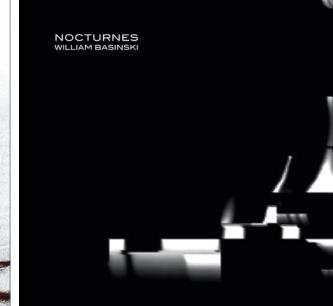






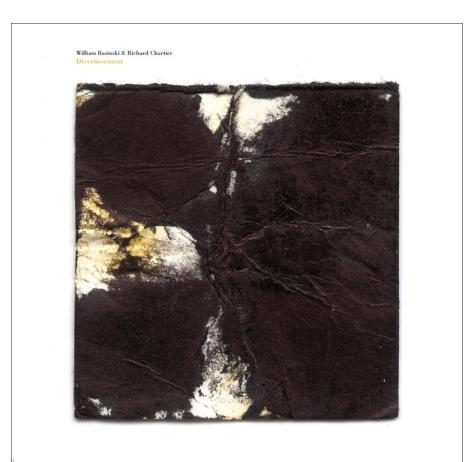






CLIENT 2062 (Los Angeles, CA)

PROJECT CD reissue series design composer William Basinski









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The Definitive Annual Ranking of the World's Largest Listed Energy Firms

Little Change in Combined Value of IHS Energy 50

- . The value of the top 50 energy companies changed little in 2013, tracking more closely the Brent oil price, which declined by 2.7% than the S&P 500, which increased 26%. The combined market capitalization of the 44 returning companies from the 2013 Energy 50 fell by 0.6% compared with a year ago.
- . This year's Energy 50 includes electric as well as gas utilities. The combined value of the 2014 Energy 50 was \$3.78 trillion, 0.8% more than the value of the same set of companies one year ago.
- Although overall values remained essentially unchanged, some companies recorded stellar performances. Among companies returning to the list, the year's largest market cap gainer was EOG, which moved from #33 last year to #27. EOG's value increase of 40% demonstrates the continuing attraction of liquids-rich North America unconventional plays. The value of the two service sector companies on the Energy 50, Halliburton and Schlumberger, increased by 34% and 29%, respectively.
- The year's largest market cap declines were posted by National Oil Companies (NOCs), with the market cap of Ecopetrol and Petrobras declining by 38% and 27%, respectively.

NOCs on Decline, IOCs Variable, Depending on Strategy

- . While the combined value of Integrated Oil Companies (IOCs) on the Energy 50 rose-by 9% on average in 2013-the combined market value of the top NOCs fell by 15% year over year. Investors became increasingly concerned that these companies' privileged access to resources is often tied to expectations that they will build value not only for shareholders, but for the parent state and key sectors of the host economy.
- Among the IOCs, the largest market cap gains were posted by BG (+31%) and Repsol (+27%). All NOCs on the list declined in market capitalization, with the least negative results being posted by Statoil (-3%) and ONGC (-5%).

Value Surges to Midstream, Service Sectors

- Midstream companies achieved the strongest combined growth among the segment Top 15 lists, posting a combined market cap increase of 26%. Most of these companies are in North America where the unconventionals revolution created exceptionally profitable opportunities for debottlenecking and arbitrage.
- . The Oilfield Service segment also performed strongly, with the combined market cap of the returning Top 15 Oilfield Service Companies increasing by 25%. It may be no coincidence that cost inflation has become a rising topic of operator concern.

Two Refining Universes

 Benefiting from the surge of inexpensive domestic grude supply, the five predominantly US refiners among the top 15 Refining & Marketing companies saw an average market cap increase of 29%, compared with an average decline of 10% for the rest of that list.

Continued Focus on North American Upstream

- . The "easy" barrels in North America have been valued into company portfolios, but North America E&P continues to be a focus for many companies. The US companies on the Top 15 E&P list performed markedly better than the group's average-garnering 32% average growth in value, compared to the group's 21% as a whole.
- Further, the market appeared to reward companies that prioritized North American investments while divesting elsewhere, with the share prices of ConocoPhillips and Occidental rising by 20%+.



The IOC Value Proposition Regains Respect



O DRILLING & OILFIELD SERVICES

Source: Bloomberg, IHS estimates as of 12/31/2013

divide. All the IOC Majors-ExxonMobil, Chevron. Royal Dutch Shell, BP and TOTAL - are in positive one-year and three-year growth territory. Except for Following some years of impressive market cap Royal Dutch Shell, all delivered double-digit growth growth, the two Latin American NOCs on the (+30%). Over three years, Husky (+32%) posted the cap declines.

Changes in Market Capitalization Growth

more one- and three-year market capitalization

growth among the Energy 50 included IOCs,

European utilities recovering from poor recent

performance and the North American midstream.

1-YEAR GROWTH IN MARKET CAPITALIZATION

market capitalization during 2013. Groups delivering and Duke Energy (+107%) the top three-year

Most of the Energy 50 companies posted growth in EDF (+90%) delivered the top one-year performance. Circle size indicates market cap

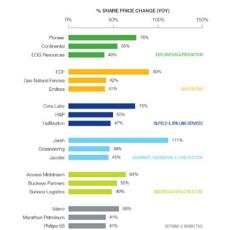
market capitalization.

growth. With the exception of NOCs, nearly

every single company posted one-year growth in

Zooming in on IOCs and NOCs shows a starting top IOC performance and Chevron (+30%) the best Source: Bloomberg, IHS estimates as of 12/31/2013

Segment Share Price Leaders





In a year of strong overall stock market growth, the Energy 50 segment Top 15 leaders delivered impressive results, posting share price gains ranging from 40% to over 100%.

The leading performers on the Top 15 segment lists were Chinese equipment manufacturer Jereh (+111%), French utility EDF (+90%), and North American E&P Pioneer (+76%). US players dominated several categories, including E&P, Midstream Infrastructure and R&M, reflecting continued confidence in North American players. In an about face from 2012, European utilities dominated the Gas and Power Utilities segment.

BG delivered the top IOC growth (+30%) and all the NOCs were in negative territory, with Statoil performing the best at a 3% loss in share price and value over 2012.

Alternative energy companies continued to deliver volatile performance and are not shown in this chart.

Source: Bloomberg, IHS estimates as of 12/31/2013

Top 15 Exploration & Production

2013 Rank	2012 Rank	Company Name	Market Cap (SUS billion)	% Share Price Change (YoY)	Est P/E	Debt/Capital	HQ Country	Ticker/Exch
- 1	1	ConocoPhillips	86.6	21%	12	30%	US	COP US
2	2	Occidental	76.7	24%	13	15%	US	OXY U
3	6	EOG Resources	45.8	40%	21	30%	US	EOG U
4	4	Anadarko	39.9	7%	17	37%	US	APC U
5	5	NOVATEK	36.8	7%	16	30%	Russia	NVTK RI
6	7	Canadian Natural	36.7	16%	18	27%	Canada	CNQ C
7	8	Apache	34.3	10%	9	25%	US	APA U
8	3	BHP Billiton	33.1	-13%	17	33%	Australia	BHP A
9	9	Woodside	28.6	0%	9	21%	Australia	WPL A
10		Pioneer Natural Resources	25.5	76%	44	27%	US	PXD U
11	12	Devon	25.1	19%	8	33%	US	DVN U
12	11	Marathon Oil	24.6	16%	14	26%	US	MRO U
13	15	Noble Energy	24.5	34%	21	33%	US	NBL U
14	10	Cenovus Energy	21.6	-16%	22	34%	Canada	CVE C
15		Continental	20.9	55%	25	54%	US	CLRU

- Company names in bold indicate IHS Energy 50 ranking
- Share price growth based on primary exchange tickers in USD P/E based on earnings from continuing operations for the 12 months ended 9/30/2013
- Debt/Capital is ratio between total debt and total capital based on most recent published balance shee

Source: Bloomberg, IHS estimates as of 12/31/2013

Top 15 Refining & Marketing

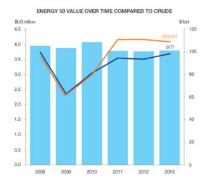
2013 Rank	2012 Rank	Company Name	Market Cap (\$US billion)	% Share Price Change (YoY)	Est P/E	Debt/Capital	HQ Country	Ticker/Exch
1	1	Reliance	46.8	-7%	13	37%	India	RIL IN
2	2	Phillips 66	46.2	41%	12	22%	US	PSX US
3	4	Marathon Petroleum	27.6	41%	13	23%	US	MPC US
4	5	Valero	27.2	56%	11	26%	US	VLO US
5	3	Formosa Petrochemicals	26.1	-8%	287	52%	Taiwan	6505 TT
6	9	HollyFrontier	9.9	10%	9	13%	US	HFC US
7	6	SK Innovation	8.5	7%	10	26%	Korea	003600 KS
8	7	Indian Oil	8.4	-30%	12	58%	India	IOCL IN
9	11	Petrom	8.2	13%	6	8%	Romania	SNP RO
10	8	S-OIL	7.9	-28%	30	42%	Korea	010950 KS
11	13	Tesoro	7.8	30%	14	39%	US	TSO US
12	12	PKN Orlen	5.8	-15%	55	21%	Poland	PKN PW
13	14	Tonengen Sekiyu	5.2	4%	5	55%	Japan	5012 JF
14	10	Tüpras,	5.0	-36%	7	58%	Turkey	TUPRS T
15	15	Bharat Petroleum	4.1	-13%	13	65%	India	BPCL IN

Company names in bold indicate IHS Energy 50 ranking

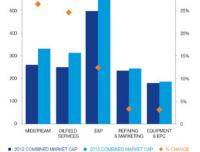
. Share price growth based on primary exchange tickers in USD

PE based on earnings from continuing operations for the 12 months ended 9/30/2013
Debt/Capital is ratio between total dabt and total capital based on most recent published balance sheet.

Industry Seesaw



Source: Bloombera, IHS estimates as of 12/31/2013



YOY GROWTH BY SECTOR

The value of the Energy 50 as a group has changed little in the last three years, in line with flat average annual oil prices, while the Brent / WTI value of Top 15 Midstream companies rose by -particularly in North American Midstream and Refining.

The top performing sectors in 2013 were Midstream and Olifield Services. The combined price differential has affected individual valuations 26%, with North American companies benefiting from debottlenecking and arbitrage opportunities as well as production growth. The value of the

Top 15 Oilfield Services companies rose by 22%. reflecting demand and global optimism about new developments. New fears of operator reaction to cost inflation may, however, already be factoring into the value of Equipment and EPC companies, which showed only modest growth.

Source: Bloomberg, IHS estimates as of 12/31/2013

CLIENT IHS (London, UK) PROJECT annual 8-page data report jeff spaulding

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