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Aporian Emulsions

working with photograms & antiquarian emulsions

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Aporian Emulsions

The bold motifs, brush strokes swiped across the paper are based on a variety of sources: grave markers fragments between the surface from Port Ross in the Auckland Islands, the beacon on the Amherst Spar, coastlines, the southern convergence, meteorological depressions, ocean vessels, objects of navigation etc. Nail's of the Crucifixion, St Sebastian's Arrows, Alchemic symbols. In many works, Translation is an archaeological episode, a piecing the marks are graphically bold, speak loudly and together of evidence from the position and experidominate the page.

of Technology" 1994 and even further back to the contained. obscure references of "Symbols" 1986-9. From the echoes of these earlier references, a discourse is carried forward, but in Aproian Emulsions, a further evo- But these images are more complex than the simlution grows, a signature emerges, a cryptic visual plicity of motif and detail would suggest, and the vernacular.

The finer details, fragments between the surface, ref-sheets of paper in semi-darkness, then (after it is dry) erence different items; discarded debris, artefacts of making photograms, using clich'e verre and the more existence both from the natural organic world and traditional form by laying real objects on the paper the human manufactured. They investigate the veiled and exposing the resulting combination to sunlight expanse between discarded and useless rubbish and for up to an hour in some cases. significant cultural artefact salvaged from an archaeological site: the utilised spent and worthless, and the utilised once abandoned but now suddenly valued These chemical processes date back to the invention within a difference context. As the image replaces the of photography around the 1820s by Fox Talbot and object and becomes a new surrogate, a secondary the cyanotype by Hershel. But where the confines artefact emerges.

ence of the viewer, a site of personal investigation, discovery. Inspection of the detail reveals fragments of information, but in the areas where the emulsion Both these bolder designs/motifs and the more deli- was never coated, portions remain forever lost and cate lines and textures, the intricate details infused while the imagination might conjure the content of within the gestalt relate to earlier projects: "Codes the holes, it is an unsolvable mystery there is a point of Survival" 1990-92, "Evidence from the Religion of doubt and indecision about what they may have

> antiquarian processes intricate this complexity. They are made by mixing various base chemicals and selectively painting the resulting liquid emulsions on to

> of the past dictated a rectangular application, in the Aporian Emulsion, the coatings break into a free form where the emulsion is selectively coated.

of alchemy are varied, but historically have typically of the artefact with consequent access. included one or more of the following goals: the creation of the fabled philosopher's stone; the ability of which are still in use today. (Wikipedia)

In the Aporian Emulsions, the combination of chemical processes and alchemic symbols promote a sense that chemicals released into the environment are free to Recording permits recognition in a post-object circumpermeate the environment in ways that we may not stance, that which was evidenced for the future but no quite appreciate. Where alchemy was an imprecise longer exists. All physical entities have this potential, science where the cause and effect where never fully but providence and choice decide which articles are understood, modern quantitative science was thought transcribed for the future and which miss the boundto control the chemicals and processes in a defined aries of the photo-sensitive recording medium. Those manner; science has nature under control. But the exterior to this domain, the facsimile, are excluded proliferation of synthetic chemicals and release into forever, we assume they are either unimportant or the wider environment where they can uncontrollably never existed. Acknowledgment is the consequential combine to create new unknown atomic bonds un- act. The site where surviving secondary artefacts are derlines that modern science is still an alchemy we do decoded, where the mystery of the image reveals an not fully understand or have control of. Minute traces infinity of interpretations. Access to the site is an act of chemicals released into the environment through of empowerment, it gives a rationale to the process water systems, soil and air, continue to grow in con- and the documentive artefact. centrations and permeate every part of the planet.

Alchemy is an influential philosophical tradition whose Physical existence relies on the hiatus between subjects, practitioners have, from antiquity, claimed it to be the evidence of existence relies on the imprintation of the precursor to profound powers. The defining objectives subject and acknowledgement of existence on survival

to transform base metals into the noble metals (gold Separation into defined entities permits identification, or silver); and development of an elixir of life, which permits classification, spaces between similar entiwould confer youth and longevity. Alchemy differs ties permit confirmation of individual status, spaces significantly from modern science in its inclusion of between objects imprinted on the emulsion, spaces Hermetic principles and practices related to mythol- between the strokes of emulsion itself separate obogy, magic, religion, andspirituality. It is recognized jects by a different means. Like islands in an ocean; as a protoscience that contributed to the develop- coastlines where the ocean is aporian. Vast areas of ment of modern chemistry and medicine. Alchemists unreferenced territory or what we might consider as developed a structure of basic laboratory techniques, music with intervals of silence that are an integral theory, terminology, and experimental method, some part of the composition. A place where the spaces survey the result of mark-making, a place of absence, a place of presence. An emulsion where the stroke of a brush is a destiny.

stood is released into the environment and takes on bristles separate, the brush runs dry. a mutant life of its own. A crucifixion where nails are driven into a larger body, where arrow after arrow are shot into a different flesh - the humus of the land.

An alchemy, where like a photo-sensitive emulsion, bres of the paper, an Aporian Emulsion. the effect lies latent and the symbol is fixed, detach from the cause only to reveal itself at a much later. The flow of an emulsion can pursue inexhaustible time as is evidenced in the damage to the ozone courses, a controlled course, a random course, or layer.

The boundaries of recorded existence create the line of emulsion flows is in the hand of the maker, barriers where the secondary artefact concludes and when that emulsion is sensitive to radiation, the and the aporian emulsion initiate an imaginative potential to record detail and intricacy, to imply more dialogue, suggestion replaces actuality. The incom- complex meaning is augmented. To coat these paplete are completed while the unreferenced may pers in a safe light the environment can be dim. The never begin. It is not that they never existed but they process of coating the paper creates uncertainty of were never referenced. It is where a similar entity where one has been, a semi-blind course charted could be, but because there is no reference, doubt by a semi-visible line in a half light. As much as the remains. Total lack of reference creates uncertainty, controlled path is anticipated, randomness takes its the thought of their existence might never occur, or course. In processing the print, the process is also if it does uncertainty remains. Presence/absence allowed freedom, aberration is encouraged. creates contradiction, confrontation/contestation. There is engagement between the presence of the bold marks created by the chemical emulsion and absence in the aporian emulsion where the sensitiser was never applied, the primary artefacts never referenced. Historically there has been an empha-

While marks in themselves can represent a variety—sis on a complete and smooth application of antiof meaning; motifs like nails from the crucifixion, ar-quarian emulsions like the cyanotype and Van Dyke rows of St Sebastian, that we recognizes as Christian Brown on the surface of the page to maximise the artefacts with established meaning and significance; recording of detail. Fully refined we have the familiar and alchemic symbols that have another set of es-photographic surface, complete, urbane and recttablished codes are difficult to escape. Using these angularly defined, there is also another potential, motifs with over laid intricate details of other sym- one that embraces selective coating, one where the bols, artefacts with another set of codes suggests emulsion creates marks, motifs, symbols, one where a new meaning, a different crucifixion for instance the emulsion is not even, where it pools deeper - where the earth is crucified, a different alchemy or thinner as the brush curves across the surface, - where what is considered controlled and under- where the pressure from the hand changes, the

> Each print contains a unique emulsion that cannot be repeated, an emulsion where the uncoated gaps challenge the sensitised marks penetrating the fi-

so many courses that it becomes a single plane and obliterates reference to any course at all. Where the

The measuring, mixing and coating of the hand- The Cyanotype and Van dyke Brown emulsions react

Light is inextricably linked to our vision, light is cen-variation beyond prediction. With the traditional silver tral to photography and the resulting image is ac- gelatine emulsion, there is a period of absence, lacessed through this phenomenon, light. But when the tency, when the image exists but is hidden and waits emulsion is activated by another source of radiation development in chemicals; with aporian emulsions is removed, something distinctive is associated with mediately after the exposure. this other process. The cause is outside our vision, the effect within. The cause is aporian, and selective application of the emulsion creates voids that expand this. There is a space between the commercial traditional silver gelatine photographic emulsion and the alchemy of these processes.

made emulsion is a different archaeology, it explores to ultra violet not light, like infrared and x- rays they the earliest layers of photography when science and contain another vision beyond our sight. In each case magic danced at the discovery of the photographic we see the effect but not the cause. Because of this medium. There is a ritual involved that places the they cannot be exposed in a camera, the negatives maker in a scientist, sorcerer-like role where science (or in the case of the photogram) objects imprint and cabalistic forces meet in a homage to Daguerre, themselves in contact with the emulsion. There is no Fox Talbot, Bayard, Atkins, Herschel, it relates to the means (or necessity) to enlarge the object as with primitive history of photography an alchemy of im- the traditional photograph, the size reference of the age-making. Here the maker is more responsible for object is printed on to the emulsion. With the camera, the whole process, a process that can change the the act of taking a photograph can be reduced to existing world, a magic that can fix a facsimile on the fractions of a second but with sun or solar printing page. 150 years later it still holds a special power, a the aporian emulsion, the exposure can range from power that is revolutionary and relevant for any indi- 10 minutes to several hours. In this time, the source vidual to rediscover in a contemporary environment. of energy that drives the process arches across the sky and the angles of rays and shadows played onto There is the implication that because the image is the emulsion change. The object are less distinct on seen and we know that light affects photographic the page, each appears to have an aura that vibrates materials the same holds true for these emulsions. a light as a reference to its creating force. There is beyond the visual spectrum, the resulting image is the image reveals itself imprinted on the emulsion intangibly different, something of the photographic through variation of colour, there is a presence imAs a boy of around 13 I can remember a large light layers of artifacts that Christian Schad, Man Ray and machine at my father's office for making blue prints. Moholy Nagy left behind when they rediscovered the It was a box like structure with a lid that covered the technique in 1918 and attached a different rhetoric of hand drawn architects drawings on tracing paper ment. A photography of counter current. were delivered to the office and many copies were made onto specially sensitized paper by exposing light through the original ink line drawing onto the The Aporian emulsion is one with gaps, holes, where prints, and over time the process was replaced by traditional lens based photography. photo-copying, but this was in fact the very same cyanotype process I used to create many of the prints for this series.

But these images contain another degree of randomness that makes them unique: the intricacy of the photogram. It is a method of photogenic drawing that leaves singular imprints, unique is the tracery imprinted on the paper. The selection and placement of objects, primary artifacts from a material world, is a transitional one creating comparable but distinctive markings. Each circumstance is different, each image

Like the emulsion itself, the photogram is an ancient artifact from the site of photographic invention. It pays homage to Fox Talbot's earliest experiments, to Anna Atkins and her largely unacknowledged works where she created a large body of cyanotypes using plants laid on the emulsion, where she created the first book of photographs, where she used a photographic process to record scientific information, where she remained silent and never became a drowned woman as Hippolyte Bayard reacted and became a became a drowned man. It also plays homage to the mid

entirestructure and lifted to reveal a large glass top meaning: that of Dadaism, Suprematism, Constructivwith rows of ultra violet tubes deep below. Original ism, that of Surrealism, that of the modernist move-

sensitized side of the receiver sheet. These were large nothing is certain, where objects and artifacts appear prints and in my farthers case, contained all the wir- and dissolve, where the future meets the past, where ing details needed to complete the installation of a maker can experiment with uncertainty of process a fire alarm system. The paper was then processed and discover a new language for self and object in an ammonia solution; I still remember the smell in state of presence and absence, where there is a permeating the entire office. These were called blue continuation of the counter current that runs against

Aporian Emulsions

Aporian Emulsions

initial layer of investigation

Following the Evidence from the Religion of Technol- a large contact transparency negative on a sheet of ogy series of large colour photograms, in late 1995 acetate through a photo-copy machine and coated and through the months of 1996 I experimented with the paper in an even more fragmented manner. The Cyanotype and Van Dyke Brown emulsions. These strong graphic lines of the resulting print looked less are antiquarian light sensitive emulsions where one like a photograph and more like a painting. Once it mixes the chemicals from base, paints the liquid on dried, I applied hand colouring and stuck four New the paper or support base in subdued light, lets it dry Zealand postage stamps from the series Centenary and then lays a negative or in the case of a photo- of Cinema that referenced four new Zealand films gram, object, on top exposing it to sunlight and finally Hinemoa by George Tar 1914, Broken Barrier by John processes the paper in water or chemicals to reveal O'Shea 1952, Once were Warriors by Lee Tamahori the positive image. Traditionally the emulsion is most 1994, Good Bye Pork Pie by Geoff Murphy 1981. Each often applied in a manner where a rectangular area stamp contained an adjacent mystery segment of a slightly larger than the contact negative is covered scratch out panel with the potential to win a prize, with the brush. For the first experiments I used a large which were deliberately left intact. format 8 X 10 inch contact negative and in one of the experiments there was a streak where the emulsion I later followed this with another image for the exfailed to cover the area. A long hole ruptured the hibition Homage to Toru Takemitsu, (The Music has integrity of the image separating land and sky. Rather Ended), Shinjuku-ku, Tokyo, Japan which included than discarding this flaw, for me it opened a potential postage stamps of musical instruments. From these that became the Aporian Emulsion series. I began two images came the realization that the application to apply the emulsion in a more random manner of the emulsion was beginning to intentionally fragand also using graphic line drawing images that were ment and divorce the tyranny of the rectangle that then photocopied onto A3 transparent material that had bound traditional photography. became the contact negative in a similar manner to a clich'e verre. Some of these early experiments were later hand coloured.

When I was invited to exhibit in an exhibition, From Cinema Archaeology to Mail Art, Fano, Italy, I created

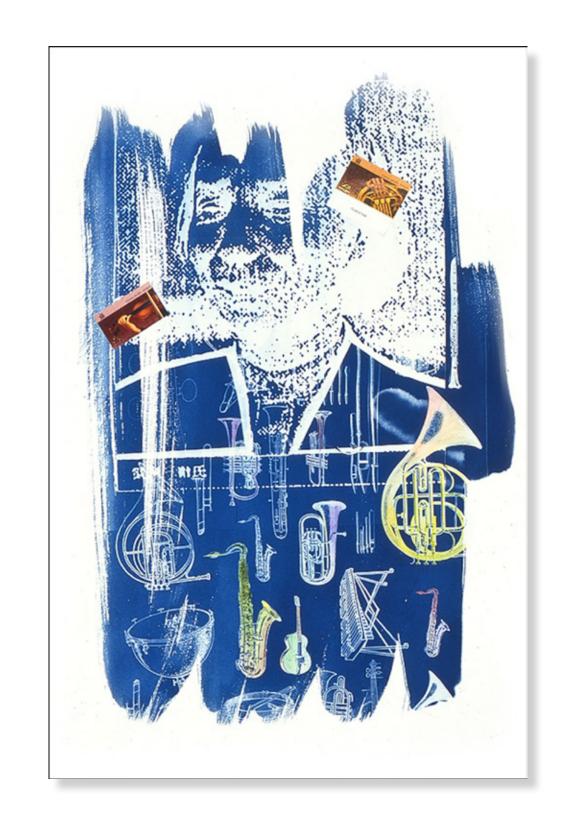






Untitled - Van Dyke emulsion photogram/clich'e verre print - 1996 Untitled - Van Dyke emulsion photogram/clich'e verre print - 1996









One thousand years - Van Dyke emulsion photogram/clich'e verre print - 1996 One thousand years - Van Dyke emulsion photogram/clich'e verre print - 1996

Aporian Emulsions

second layer of investigation

From this point the application of the photosensitive emulsion was deliberately painted on the paper surface as a motif rather than a covering which referenced a rectangle. The application was carried out with a broad brush in the semi dark of a yellow safelight and because the emulsion is a yellow colour it has a similarity to painting with an invisible pigment. The motifs encompass a grave marker from the Auckland Islands that feature in the *Codes of Survival* project, while the nail shapes relate to the crucifixion of the earth and the way we drive things into the soil, substrata and rock. Brush marks were explored for their aesthetic potential.

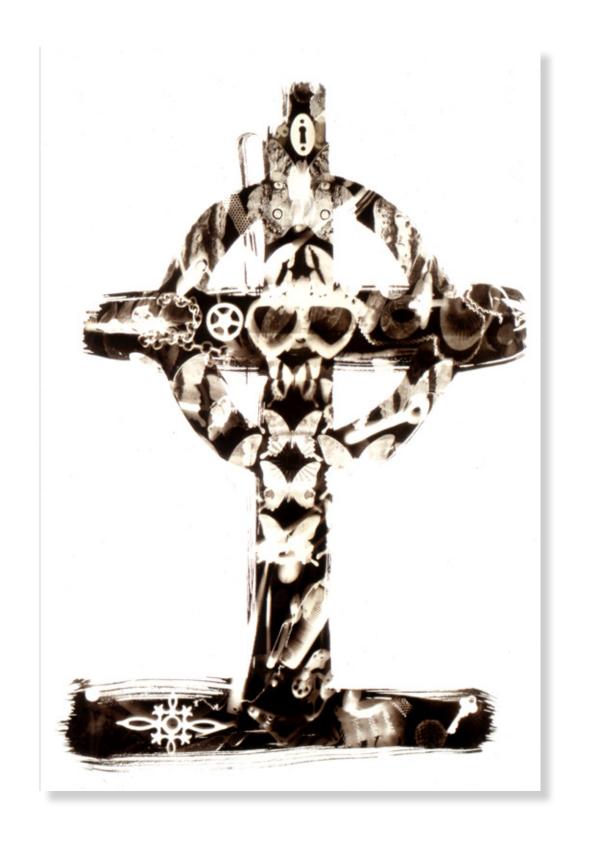
In some images the emulsion becomes a heavy dark stain on the paper, while in other images it appears to have faded suggesting exposure over time has played effect in a similar manner to the Holy Shroud in Turin.

Bold blue lines of the cyanotypes represent weather patterns and pressure zones.



Beacon - Hand coloured Photogram Van Dyke Brown Print - 840 x 600 - 1996
The motif is a reference from a beacon on the Auckland Islands





Emblem From a Sailors Grave - Photogram Van Dyke Brown Print - 840 x 600 - 1996

The motif is a reference from grave markers and beacons on the Auckland Islands





Nails of the Cross 1 - Photogram Van Dyke Brown Print - 1020 x 860 - 1996





Nails of the Cross 3 - Photogram Van Dyke Brown Print - 840 x 600 - 1996





Non Site- Photogram Van Dyke Brown Print - 840 x 600 - 1996

Nails 1 - Photogram Van Dyke Brown Print - 840 x 600 - 1996





Nails 2 - Photogram Van Dyke Brown Print - 1010 x 670 - 1996 Nails 3 - Photogram Van Dyke Brown Print - 1010 x 670 - 1996





Nails 4 - Photogram Van Dyke Brown Print - 1010 x 670 - 1996





Nails 6 - Photogram Van Dyke Brown Print - 1010 x 670 - 1996





Nails 7 - Photogram Van Dyke Brown Print - 1010 x 670 - 1996





Oceans I - Photogram Cyanotype Print - 840 x 600 - 1997

Aporian Emulsions second layer of investigation





Anticyclone I - Photogram Cyanotype Print - 840 x 600 - 1997





Passage II - Photogram Cyanotype Print - 840 x 600 - 1997 Passage I - Photogram Cyanotype Print - 840 x 600 - 1997





Untitled - Photogram Cyanotype Print - 840 x 600 - 1997

Untitled - Photogram Cyanotype Print - 840 x 600 - 1997





Runic symbol - MAN, Van Dyke Brown 840 x 600 - 1996 Southern Oscillation - Photogram Cyanotype Print - 840 x 600 - 1997



where it pools deeper or thinner as
the brush curves across the surface
where the pressure from the hand changes
the bristles separate
the brush runs dry - then thick again
where the stroke curves in elegance
or breaks sharp in a bend
or stops dead

Aporian Emulsions

Alchemic Symbols

Through the coating, exposing and processing of so many prints, the work certainly had an element of excitement and discovery. I saw a mix between the surrealist association of the dream in the photogram process and alchemy in the mixing and processing of the chemicals.

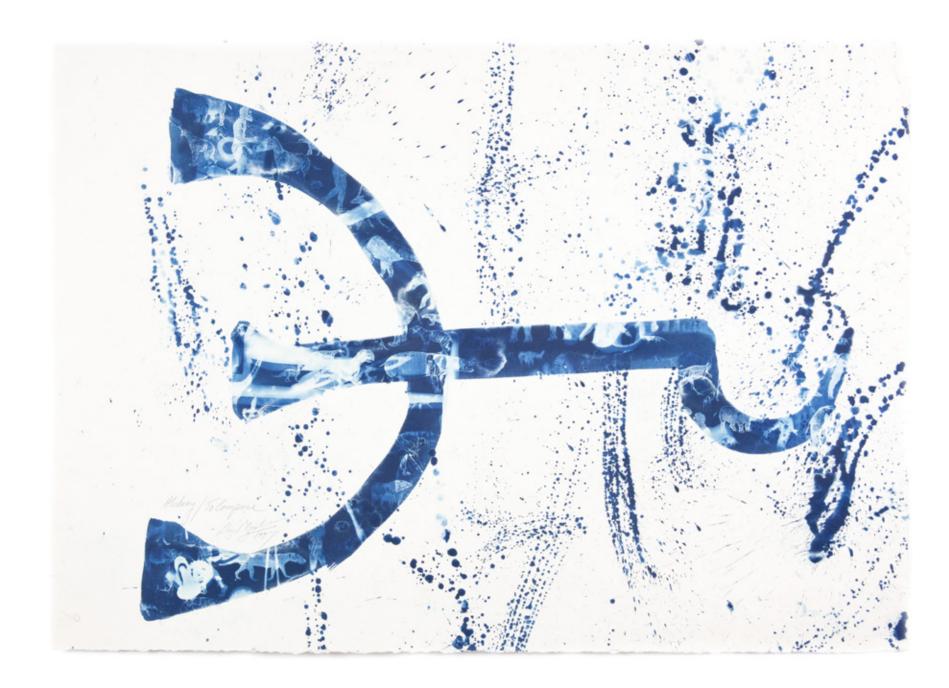
But, I could not help but wonder what happened to the chemicals washed away in the processing. I had also been reading more about the fine traces of chemicals left in the environment from agriculture and an industrialized society. Once discarded into the wider environment, synthetic chemicals can combine creating new chemical compounds the structure and nature of which we do not know. This uncertain science seemed to reference another alchemy, and I began to use the cryptic symbols of alchemic in the motifs.







Alchemic symbol, Copper - Cyanotype 840 x 600 - 1997 Alchemic symbol, Soap Stone - Cyanotype 840 x 600 - 1997





Alchemic symbol, To Compose - Cyanotype 840 x 600 - 1997 Alchemic symbol, Burnned Alum - Cyanotype 840 x 600 - 1997





Alchemic symbol, Iron Filings - Cyanotype 840 x 600 - 1997 Alchemic symbol, Gold - Cyanotype 840 x 600 - 1997





Alchemic symbol, Grille - Cyanotype 840 x 600 - 1997 Alchemic symbol, World Spirit - Cyanotype 840 x 600 - 1997





Alchemic symbol, Summer - Cyanotype 840 x 600 - 1997 Alchemic symbol, White Arsenic - Cyanotype 840 x 600 - 1997





Alchemic symbol, Torrefaction of Silver - Cyanotype 840 x 600 - 1997 Alchemic symbol, Urine - Cyanotype 840 x 600 - 1997





Alchemic symbol, To Purify - Cyanotype 840 x 600 - 1997 Alchemic symbol, Essence - Cyanotype 840 x 600 - 1997





Alchemic symbol, Antomony - Cyanotype 840 x 600 - 1997 Alchemic symbol, Yellow Wax - Cyanotype 840 x 600 - 1997





Alchemic symbol, To Sublime - Cyanotype 840 x 600 - 1997





Alchemic symbol, Amalgamation - Cyanotype 840 x 600 - 1997 Alchemic symbol, Spirit of Silver - Cyanotype 840 x 600 - 1997





Alchemic symbol, Torrefaction of Gold - Cyanotype 840 x 600 - 1997 Alchemic symbol, To Rot - Cyanotype 840 x 600 - 1997





Alchemic symbol, Caustic of Lime - Cyanotype 840 x 600 - 1997 Alchemic symbol, Autumn - Cyanotype 840 x 600 - 1997





Alchemic symbol, To Boil - Cyanotype 840 x 600 - 1997 Alchemic symbol, To Boil - Cyanotype 840 x 600 - 1997



In the Aporian Emulsions, the combination of chemical processes and alchemic symbols promote a sense that chemicals released into the environment are free to permeate the environment inways that we may not quite appreciate.

Aporian Emulsions

Third layer of investigation

I became further concerned with how we af- Gaia. As population grows, as lifestyles place fect the land and environment we depend more demands on the planet, increasingupon and live on. In the early 1990s I had ly, we pollute the atmosphere - the air we worked on a project with Dr Paul Butler from breathe, the water-ways - the liquid we ingest Manchester who had access to current data and clean ourselves with, the soil - the humus from NASSA that clearly showed CO2 levels that grows our food, the oceans - the great were climbing and the climate seemed to be body of water where most pollution flows to. altering.

I had always been drawn to Colin McCahon's Necessary Protection series. But where Mc-Cahon stated: 'They have to do with the days and nights in the wilderness and our constant need for help and protection". I interpreted the title as a necessary protection for a landscape which Rachel Carson pointed out in Silent Spring, we were slowly destroying.

I looked to relate how we afflict injury to the earth. The motifs of arrows, nails, screws, hypodermic needles etc. became symbols for the way we shoot and screw shafts into the strata, we inject chemicals, drive nails and crucify the organic body of James Lovelock's

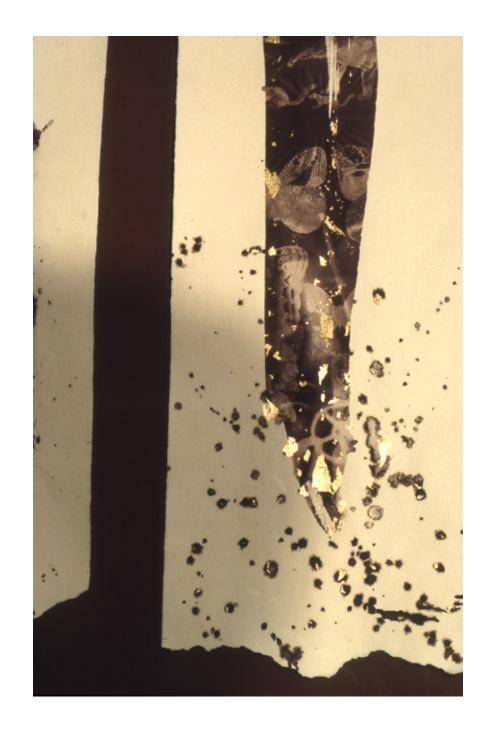
The very essentials we depend upon!











Nails of the Crucifixion, Van Dyke Brown and applied gold leaf - 1200 x 970 - 1997 detail - Nails of the Crucifixion, Van Dyke Brown and applied gold leaf - 1200 x 970 - 1997 These chemical processes date back to the invention of photography around the 1820s by Fox Talbot and the cyanotype by Hershel. But where the confines of the past dictated a rectangular application, in the Aporian Emulsion, the coatings break into a free form where the emulsion is selectively coated.



Artifact 08-7 - Van Dyke Brown print 1000 x 200 - 1997



Artifact 08-5 - Van Dyke Brown print 1000 x 200 - 1997



Artifact 08-5 - Van Dyke Brown print 1000 x 200 - 1997



Artifact 09 - 7 - Cyanotype print 1000 x 275 - 1997



Artifact 09 - 12 - Cyanotype print 1000 x 250 - 1997



Artifact 09 - 75- Van Dyke Brown print 1000 x 275 - 1997



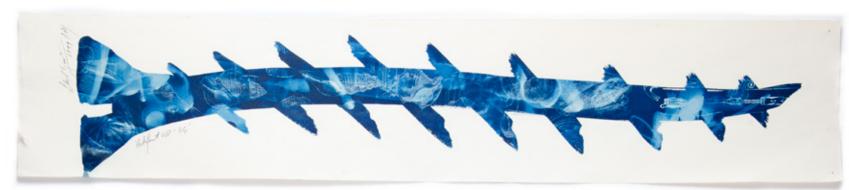
Artifact 09 - 12 - Van Dyke Brown print 1000 x 200 - 1997



Artifact 09 - 11 - Cyanotype print 1000 x 250 - 1997



Artifact 08 - 42- Van Dyke Brown print 1000 x 200 - 1991



Artifact 08 - 34 - Cyanotype print 1000 x 200 - 1997



Artifact 08 - 33 - Van Dyke Brown print 1000 x 200 - 1997



Artifact 08 - 30 - Van Dyke Brown print 1000 x 200 - 1997



Artifact 08 - 8 - Van Dyke Brown print 1000 x 170 - 1997



Artifact 08 - 9 - Van Dyke Brown print 1000 x 170 - 1997



Artifact 08 - 40 - Van Dyke Brown print 1000 x 130 - 1997



Artifact 06 - 46 - Van Dyke Brown print 830 x 85 - 1997



Artifact 06 - 50 - Cyanotype print 830 x 85 - 1997



Artifact 06 - 48 - Cyanotype print 830 x 85 - 1997



Artifact 06 - 26 - Van Dyke Brown print 830 x 85 - 1997



Artifact 06 - 25 - Cyanotype print 830 x 85 - 1997



Artifact 06 - 47 - Cyanotype print 830 x 85 - 1997



Artifact 06 - 33 - Van Dyke Brown print 830 x 85 - 1997



Artifact 06 - 31 - Van Dyke Brown print 1000 x 130 - 1997



Artifact 05 - 9 - Van Dyke Brown print 675 x 90 - 1997



Artifact 05 - 4 - Van Dyke Brown print 675 x 100 - 1997



Artifact 05 - 13 - Van Dyke Brown print 670 x 85 - 1997



Artifact 04 - 2 - Cyanotype print 570 x 80 - 1997



Artifact 06 - 57 - Cyanotype print 675 x 185 - 1997



Artifact 06 - 5 - Van Dyke Brown print 670 x 185 - 1997



Artifact 06 - 7 - Van Dyke Brown print 602 x 180 - 1997



Artifact 06 - 10 - Hand coloured Van Dyke Brown print 675 x 185 - 1997



Artifact 06 - 23 - Cyanotype print 675 x 180 - 1997



Artifact 06 - 21 - Cyanotype print 670 x 185 - 1997



Artifact 06 - 4 - Cyanotype print 670 x 180 - 1997



Artifact 06 - 8 - Van Dyke Brown print 675 x 185 - 1997



Artifact 06 - 17 - Van Dyke Brown print 675 x 185 - 1997



Artifact 04 - 34 - Cyanotype print 501 x 150 - 1997



Artifact 04 - 25 - Van Dyke Brown print 475 x 150 - 1997



Artifact 04 - 41 - Van Dyke Brown print 400 x 100 - 1997



Artifact 04 - 11 - Hand Coloured Cyanotype print 380 x 85 - 1997



Artifact 04 - 32 - Cyanotype print 525 x 100 - 1997



Artifact 04 - 39 - Van Dyke Brown print 440 x 100 - 1997

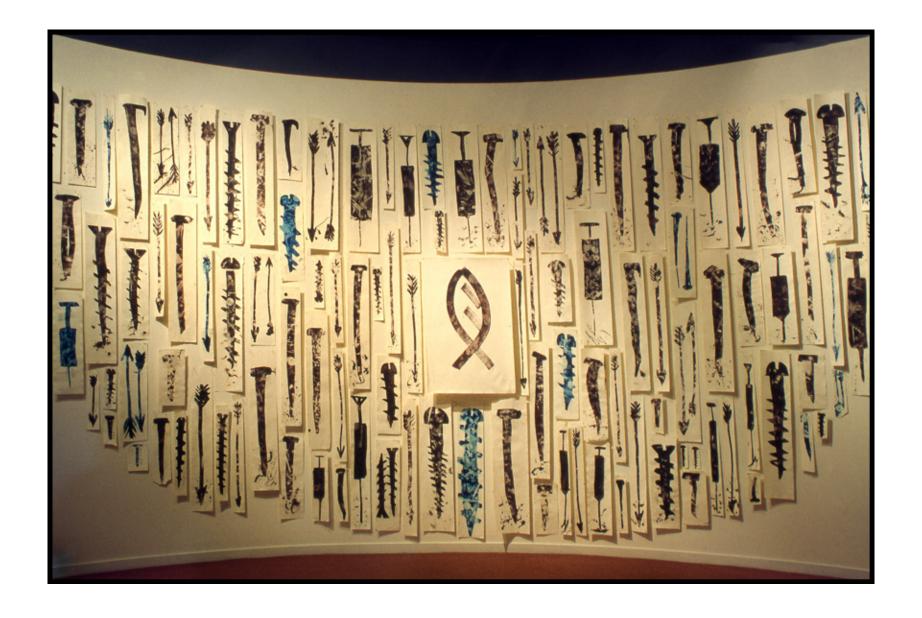
Aporian Emulsions

Gallery Installations

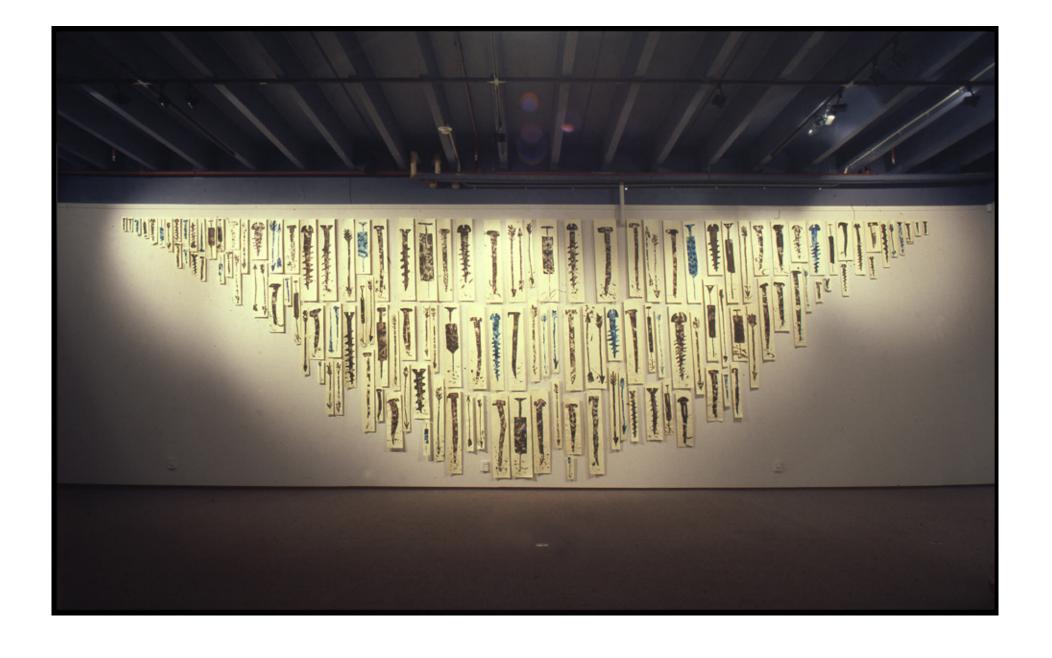
As though each one had been found from across the corner of the gallery space. As part an ancient archaeological site, I created hun- of this install we also played the gallery lights dreds of these artifact cyanotype and Van on the ceiling which had similar colours to Dyke Brown images; each one had an ar- the Cyanotypes and Van Dyke Brown prints. tefact number. Through Wayne Marriott, in late 1997, I was invited to exhibit the work at the Southland Museum and Art Gallery and this lead to a series of large installations of these prints.

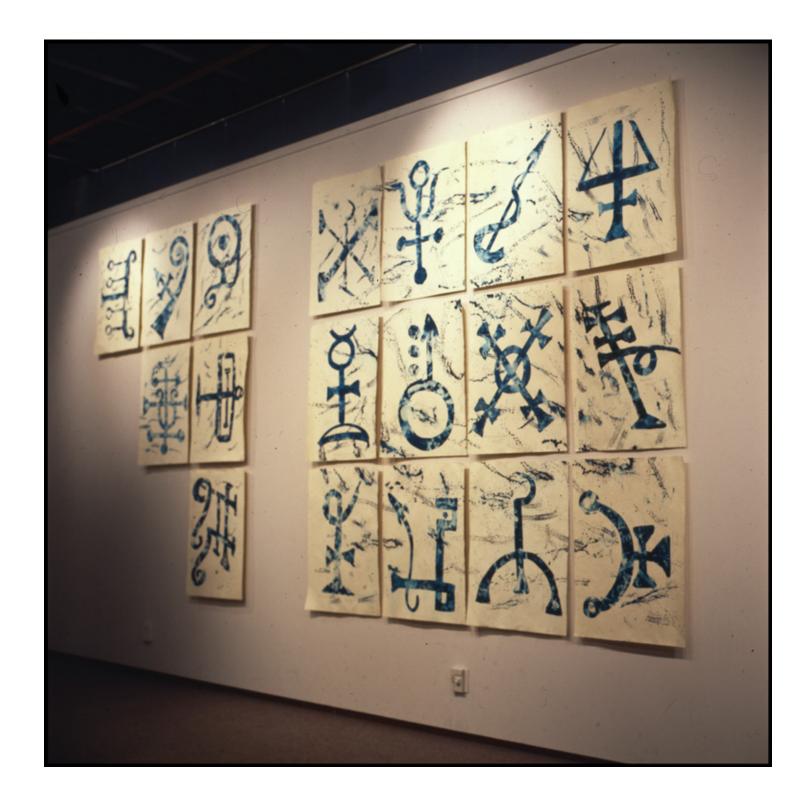
Following this the work was exhibited in 1998 at the Eastern Southand Gallery, Gore with the exhibition curated by Jim Geddes.

Warwick Smith then invited me to exhibit the work at the Forrester Gallery, Oamaru and left Belinda Jones and myself to install the work. While we began installing the work in a similar manner to Southland Museum and Art Gallery on two walls the space and particularly the ceiling called for a stronger installation. After we had installed about half the work we pulled it all down and reinstalled









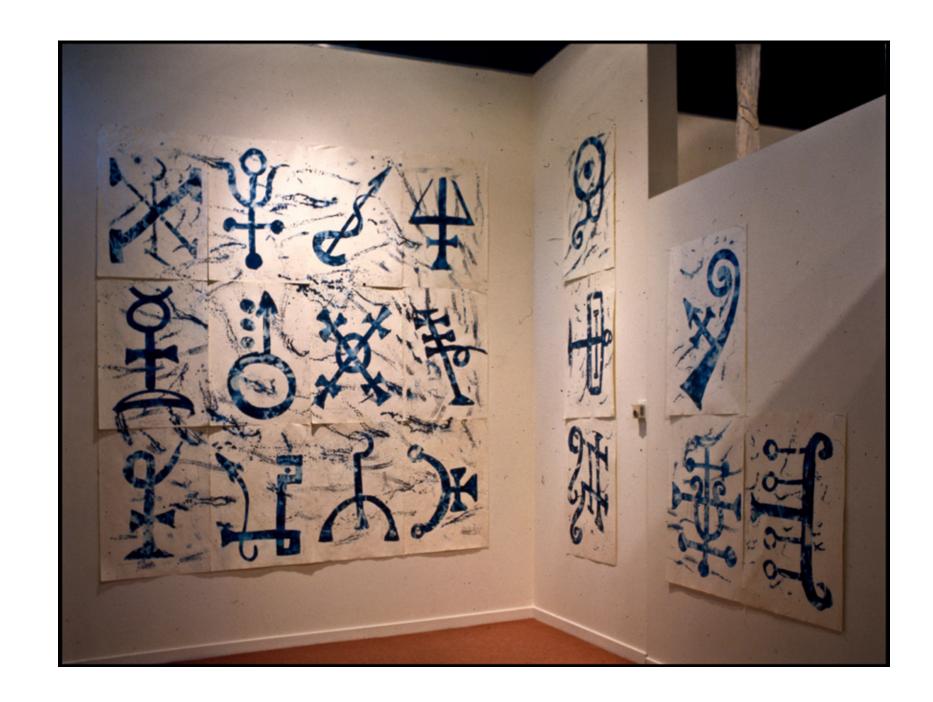


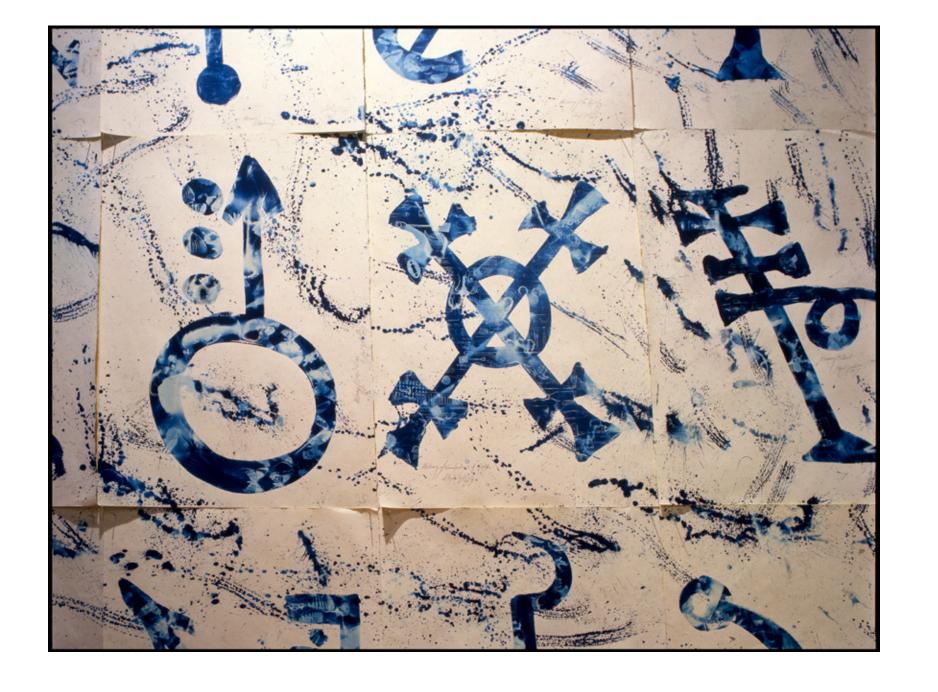




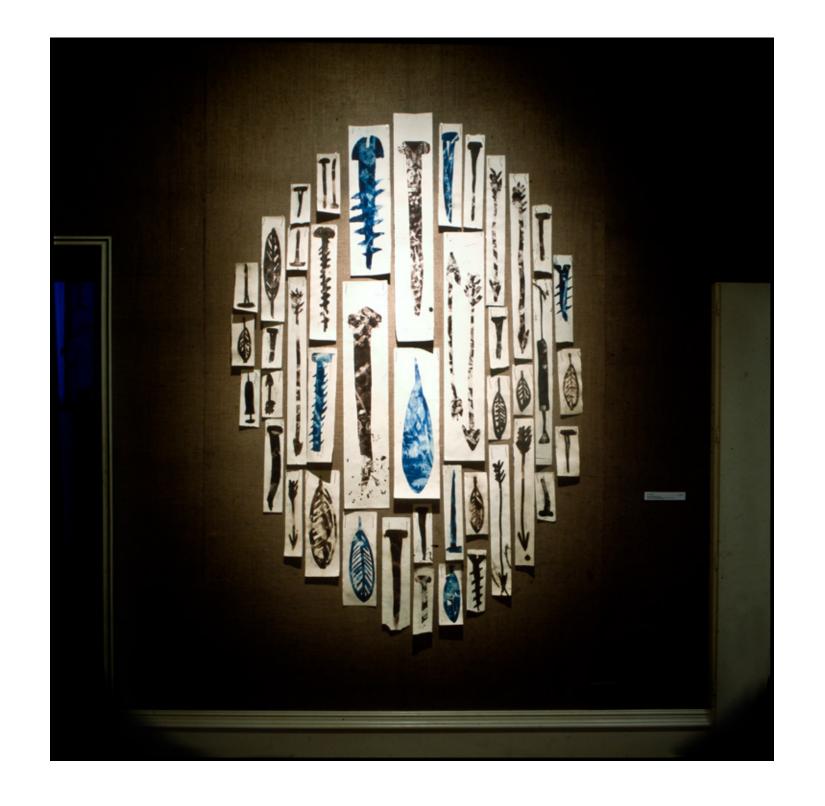
























Brown Angel , St Sebastian's Wings was installed in Viscom 9 Gallery RMIT, Melbourne, 2003 as part of the conference From NIEPCE to NOW.. a survey of Alternative processes. RMIT University School of Creative Media where Lloyd was the keynote speaker

Lisa Clunnie a past student of Lloyd's who was in Melbourne and Alex Syndakis helping to install the many prints



New Zealand poet, Hone Tuwhare reading his powerful poems at the opening of Aporian Emulsions Eastern Southland Gallery Gore, 1998



The day after the opening of Aporian Emulsions at the Eastern Southland Gallery Gore, we had a lunch at Natalie Dolamore's. Natalie had gone to great trouble to cook for us, but all Hone wanted was fish and chips. It took sometime to work out who and how to tell Natalie. In the end Hone won and it was fish and chips for everyone. 1998

Left to right, Lloyd, John Dewes-Hodgson, Natalie Dolamore, Hone Tuwhare, Jim Geddes, Marilynn Webb, Barry Cleavin, Anna Marcich, Sue Dewes-Hodgson, Sue Wilson.

Aporian Emulsions

Recipes & Process



the photographs show the making of a print from the LEAF - light impressions - Impressions de Lumière series, during Lloyd's residency at L'Arbre de Vie / Chateau de Blacons, France - 2007

The liquid cyanotype photo- sensitive emulsion is painted on the paper in the shape of the leaf and the leaves from local trees are laid like a collage on top of this with a sheet of glass placed on top to hold the leaves in place.



After the exposure to the sun the glass and leaves are removed to reveal the light formed impression of the leaves on the paper - this is then washed out in water to remove the areas of the cyanotype emulsion not exposed to the sun.

Cyanotype - Recipe & Process

There are many different recipes for the Cyanotype but one seems to be definitive. The Cyanotype process yields a distinctive metallic blue on the paper base. It is also ideally suited to printing on a fabric such as washed cotton or linen When laundering garments printed with Cyanotype, treat as a delicate fabric. As the negative is contact printed in sunlight the image will be the same size as the neg.

Prepare the two stock solutions and store separately in brown small bottles. Stored this way they will keep for approximately 6 weeks. Gently shake before use and mix equal parts.

SOLUTION A:

Ammonium Citrate of Iron or Ammonium Ferric Citrate (Green Scales or Powder) Ammonium Citrate of Iron or Ammonium Ferric Citrate (Green Scales or Powder) (Brown Powder will work but appears to react slower) GPR (98%) grade of purity is adequate for all chemicals

SOLUTION B:

Potassium Ferricyanide (not ferrocyanide)

Occasional some chemicals may be ladled in a foreign language

(analar quality is more refined and also more expensive - it is not necessary GPR (98%) grade of purity is adequate for all chemicals)

Before use, read Health hazards)

Simple Cyanotype

Solution A - 25grams: Mix with distilled water to make 125ml and store in a brown glass bottle

Solution B - 17 grams: Mix with distilled water to make 125ml and store in a brown glass bottle

Alternative recipe

Solution A - 68 grams

Oxalic acid - 1.3gram : Mix with distilled water to make 250ml and store in a brown glass bottle

Solution B - 23 grams: Mix with distilled water to make 250ml and store in a brown glass bottle

Store solutions A & B in separate bottles until ready to use.



The images show the making of the large central piece for Brown Angel, St Sebastian's Wings - Viscom 9 Gallery RMIT, Melbourne, 2003

The sheets of Van Dyke Brown pre-sensitised paper are laid out on a firm base.



The images show the making of the large central piece for Brown Angel, St Sebastian's Wings - Viscom 9 Gallery RMIT, Melbourne, 2003

The large negative, created from many photo-copied acetate sheets of A3 are laid on top of this in subdued light.



The images show the making of the large central piece for Brown Angel, St Sebastian's Wings - Viscom 9 Gallery RMIT, Melbourne, 2003

A sheet of glass is then laid on top to create a contact between the negative and the sensitised paper. Jeweller, Andrew Last and Lloyd carry the board outside for the exposure.

Method: - Mixing the Chemicals

Step 1.

When you are ready to coat your paper, combine equal amounts of solutions A and B under subdued light such as a red or yellow safe light. For optimum results, try to mix about the amount needed during one day.

Step 2.

Brush the mixed emulsion on the paper or other surface taking care to apply the coating reasonably thickly as possible but not so thickly that it would drip when hung to dry. It is important that a brush is used without a metal ferrule as this will contaminate the mixture.

If you have to use a metal ferrule make sure that you only dip the end of the brush in the mixture, the metal ferrule can also be covered with plastic tape. While they are more expensive, brushes can also be obtained that have a stainless steel ferrule and these seem to have no effect on the mixture.

Step 3.

Dry the paper in darkness or subdued light and keep in darkness until use. If you are coating a great number of sheets a drying rack is ideal, but be careful that there is no wet emulsion or contaminants on the rack where you place the paper. A hair dryer can be used to speed the drying up. Some manuals recommend using the sensitized paper with in 12 hrs. I once forgot about some paper in this state and used it after about 3 weeks without any great difference. This did not seem to effect the sensitivity: The only effect was that the tonal quality might have been a little softer. Place the paper in a light tight drier, or hang up to dry in darkness. Once dry it is best to use the prepared paper within 12 hours.

Step 4.

Expose the sensitized paper to sunlight with the negative laid in contact on top of the emulsion and a thick piece of glass on top to give better contact. (For perfect contact, a more sophisticated means of achieving this are discussed in various books on the subject). The exact exposure time will vary with sunlight conditions and experiments might be necessary to obtain good results, in bright sun the time will be about 20 mins. Finished exposure is indicated when the image appears to be one stop over exposed.

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This is then set out-doors and exposed to the UV of the sun. The exposure time varies - for full sun this might take 10-20 minutes for an overcast sky, as on this day the exposure may take an hour or longer. Not the colour of the emulsion is a light tan.

During the exposure the emulsion will turn

a darker brown.

Step 5.

Develop under subdued white light in a try of running water until all yellow races from the sensitizing solution have disappeared. For a more intense blue dissolve a few drops of Hydrochloric Acid in the wash tray before inserting paper, or after development in water, soak in a tray of water with a few drops of ammonia for a about 5-10 seconds

Step 6

Wash paper for another 10mins in running water and dry either by hanging up or tacking to a board with gummed tape. The later will avoid curling up but the print will need to be carefully cut out from the gummed surround with a sharp blade. While it is best to wipe all surfaces when the chemical mixture is wet, any marks left by the emulsion on working surfaces that have dried can be cleaned up relatively easily with water.



At the end of the exposure the board with paper, negs and glass is returned inside. Lloyd and Peter Fitzpatrick of ANU prepare to lift the board and take it indoors.

Van Dyke Brown Recipe & Process

Here are two different recipes for this process, one that gives a dark brown image the other that gives a sepial brown image.

Recipe A Sepia brown: Ammonium Citrate of Iron or Ammonium Ferric Citrate - 25 grams (Develop this mixture in a 1% borax solution) (Green Scales or Powder - Brown Powder will work but will is less sepsitive to light)

Tartaric Acid - 4 grams Silver Nitrate - 10 grams Water to make 300ml

Recipe B Dark brown: Ammonium Citrate of Iron or Ammonium Ferric Citrate - 30 grams
Tartaric Acid - 5 grams
Silver Nitrate - 10 grams
Water to make 300ml

Recipe C Ammonium Citrate of Iron or Ammonium Ferric Citrate - 18 grams
Tartaric Acid - 3 grams
Silver Nitrate - 7.5 grams
Water to make 200ml



The large negative is carefully removed.



In very subdued or a yellow or red safe light, coat the surface of the paper with the solution. Use of a clear brush without metallic ferrule is recommended. Make sure that the emulsion is stirred before use. (Some recipes suggest coating the paper twice allowing for drying between coats, but I have found that if you are careful in the application one coat seems to work fine). During storage the iron and silver can tend to separate out a different levels in the liquid.

ne chemicals separately in about 50ml of distilled wate

er Nitrate solution. Top the solution up with distilled wa

some photographers recommend storing each of the stock solutions separately, but as the mixture matures giving a deeper richer tone with age, it is recommended to leave for at least a day in a combined state. With combined solutions, make sure you gently agitate the solution to mix it before use; failure to do so can result in uneven coating of silver and iron in various areas. While this can produce some interesting effects, they may not be those you desired. Use gloves and other protective equipment as the mixture and stain skin.

Applying the emulsion too thickly can create a situation where the top layer of the emulsion becomes dark of exposure and blocks the light from reaching the lower layer, so that in the developing stage both layers was away. Experiment with emulsion thickness - a thin coat can produce surprisingly delicate tones. Thinning the emulsion down slightly can assist with this. Experiment with application techniques, foam brushes can be used foam rollers can give and even coating. Abbreviation can be incorporated as part of the work. Be aware the some papers are fragile and may need taped down to board for coating and processing, also some papers maneed sizing to stop the emulsion soaking into the fibre of the paper.



This reveals the exposed paper below

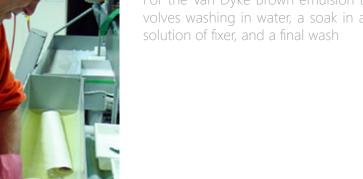


The sheets are carefully removed from the board and taken to the darkroom for processing.



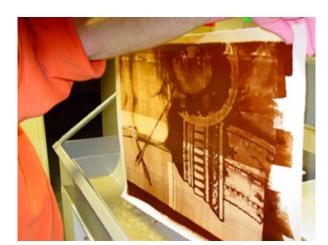


For the Van Dyke Brown emulsion this involves washing in water, a soak in a weak solution of fixer, and a final wash





For the Van Dyke Brown emulsion this involves washing in water, where the unexposed emilsion is washed off the paper, a soak in a weak solution of fixer, and a final vash



The processed print is drained and hung to dry. The prints have a rich golden brown colour when wet, but this dries to a dark

Dry the paper in darkness or subdued light and keep in darkness until use. I you are coating a great number of sheets a drying rack is ideal, but be carefu mend using the sensitised paper with in 12 hrs. I once forgot about some pape might have been a little softer.

While many manuals suggest contact print for about 10mins in bright sunlight can vary considerably from location to location and also is effected by the sea short as 2minutes. However during an overcast day in winter the exposure may be as long as 3 hours.

Often this is done by laying the negative emulsion side down, (or proxy nega 5 mm thick is placed on top of this to hold everything in good contact. Specia pegin to show faintly.

Additional Exposure Information:

lass on top of this to keep it flat. Variations on this might include: · Taping the the print dries flat. This method is particularly effective for multiple exposures lthough the print might have to be cut from the board when dry, wettable

A contact print frame keeps the negative evenly in contact with the paper dur easonable thickness, (4mm- 6mm depending on size) as the weight will hold or vacuum systems that keep the negative evenly in contact with the pape Iltraviolet light sources may be used. Exposure varies depending on lighting negatives, coating techniques and other factors. As a starting point, try 10 min sh brown or brown when exposed. Shorter exposures result in orangey-browi inal prints; longer exposures result in dark brown prints. Any of these may give correct exposure.

pe negatives to three dimensional objects coated with Additional Fixing Information: the image and process as soon as possible.

For the sepia recipe develop in a 1% borax solution.

of the surface.

ome prints)

Additional Development Information:

This can be done in room light.

eddish brown or darker brown in water.

ker for about 3-4min.

no way of keeping the print in a stable form with this light per, brushes, and other variables. rown colour. Do not leave too long in this fix, as it will begin to bleach. Because this is a weak solution of fixer nember to replace often.

exposure protect the paper from stray UV as this will fog $\,$ turn darker and to a colder brown. If the image begins to Thiosulphate (Normal Paper fixer) for about 3-4min. Because this is a weak solution of fixer it becomes exhausted n subdued light or safe light, wash in running water for $\,\,$ be used with the print placed in each for half the time.

 \prime away and is not left on the surface of the paper to reset \parallel graphic prints for about 20 mins, to an hour. A bath c pending on the nature of the paper, it can become fragile However, I have deliberately used this aberration for and tear or break up when soaked for a long period and this is particularly so with larger sheets of paper. Delicate papers can be taped down onto a baseboard for process

gitation to bring fresh water over the surface of the print $\,\,\,$ mixture is wet, any marks left by the emulsion on working or about 5 minutes, or until image has finished develop- 🔝 surfaces that have dried can be cleaned up relatively eas distilled water for best results.

Step 8.

Hung up to dry with a clothes peg as for any photo-Do not just place the print in the water and leave it there—graphic print, or lay flat to dry. Larger sheets of paper are cradle to give it support until all the excess water has run be partially rubbed off. Like any photographic process - large work keep and eye on it as it dries to readjust the mperature can also play a part and working with a wash pegs. If the work is left, it may shrink as it dries and end up with a winkle or pucker.

Step 6. Fix the print in a 5% solution of Sodium Thiosul- $\,$ NOTES: \cdot Mix small amounts first (about 20 ml or 1/2 oz, powdered chemicals keep longer than the stock solutions. · Stock solutions will keep several months or longer olour, however this will quickly turn dark brown and $\,$ or more dilute solutions may work better for specific situ

Aporian Emulsions Process





Lloyd Godman

Lloyd Godman was lecturer in charge of photography at the School of Art. Otago Polytechnic, Dunedin, New Zealand from 1986 until 2005 where he established a department that was highly regarded for its explorative approach to photography, and in particular alternative photographic processes. From 1989, his art practice has centered on the phenomenon of light and a wide range of photosensitive emulsions (including plants and photosynthesis) and camerless photography through the use of photograms. In Aproian Emulsions he utilizes alternative photo-emulsions like Cyanotype and Van Dyke Brown in a plastic manner, where the confines of the rectangle are broken and the liquid flows as marks and motifs on the paper. Rather than a technical fault, aberrations in the process are embraced as an aesthetic device that strengthens the concept of the work.

It is doubtful if Australasia has a more protean, visionary and ecologically committed artist than Lloyd Godman. Born in Dunedin, New Zealand in1952, and now living in Melbourne, Australia, he has been exploring environmental issues through photography (in combination with sculpture, painting and installations) since the early 1980s. He began taking more or less traditional landscape pictures in the late 1960s, but exposure to iconoclastic artists like Man Ray, Kurt Schwitters, and Joseph Beuys inspired him to begin chipping at the edges of photography in the interest of breaking down boundaries.

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