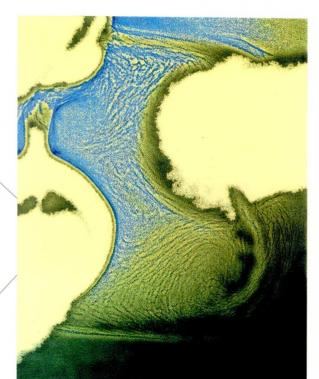
流體之美

中英對照 Chinese-English

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Professor Wang Lin-wen's Studio

Yuan Ze University General Knowledge & Humanity Office Ministry of Education's University Epitomizing Program

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Flow and Art







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序

看著白雲悠悠地飄浮於藍天,看著夕陽映照著晚霞,諸位可曾感到這流體藝術的存在。在下雨天,在窗邊看著雨滴的互動,融合似 直線又不似直線地向下流;駐足小溪旁,看著溪水繞過青石緩緩流著,有一種美不太容易表達,這美是外在還是內在呢?抑或是既有 外在亦含內在?

多年來我帶著許多研究生埋首於熱質對流實驗室,挖掘流體力學的奧秘,有許多流體圖片訴說著物理世界的規律,多篇科學論文因之而發表在國際期刊與國內外的會議。偶而,我在美術館或書店的藝術書籍看到一些抽象名畫,會覺得和我們的流體相片相去不遠,因此我開始對實驗圖片有了一種不受制約的看法,流體的科技圖片在我手中原是中規中矩的以科學態度來觀察,現在有時我會把它倒著或轉九十度來看,別有一番『韻』味在心頭,這一些圖片不再只帶給我科學的信息,亦帶給我藝術的靈感,在制約中,我看到規律的科學世界,放下制約,我溶入到藝術世界裡。

在王德育教授擔任元智藝管所所長期間,我的流體藝術參與了兩次展出,還做過一次公開的演講,流體運動在我心中不再只是吃飯 傢伙之專業智能,它也成為我溶入藝術大千世界的一股動力、一扇門。因有了流體藝術這瑰寶,我開始對藝術開了竅,有很長的一段 時間我對美簡直是一無所感,凡事求真,勤讀理則學、數學與物理,嚴謹地做科學實驗,那時我是『方』的,有稜有角,堅持真理,在別人眼中我是個求真的鬥士。當我涉足藝術甚至宗教,稜角沒了,我不再是方的,美亦能令我心醉,無言清淨的琉璃世界更是我所 嚮往。

今年曾華同學從重慶來協助我完成一個小夢,曾華本想到元智找個藝術老師指導他的雕塑,不巧王德育所長休假不在台。在一個機 緣下曾華看到了熱質對流實驗室的圖片,愛不釋手,興起為這些流場模型圖片做雕塑的念頭,這些科學圖片原是在暗房裡用雷射光投

Preface

When seeing the clouds freely flowing in the blue skies, when watching the rays emitted by the setting sun, have you ever felt the existence of flow art? On rainy days, standing by the window and watching the raindrops merge and trickle down integrating in a linear and non-linear manner; watching the creek water flow slowly bypassing the green stock, there is a form of indescribable beauty. Is the aesthetics extrinsic or intrinsic, or does it encompass both?

Over the years, I have spearheaded many postgraduate students to work on heat mass conduction laboratories, explore the mystique of flow dynamics, where many flow depictions tell the rhythm of the domain of physics, and many scientific theses have been debuted in international journals and at local and foreign conferences as a result. By chance, as I invariably feel that some of the famous abstract paintings in art books I see at bookshops or in museums are not very different from our flow pictures, I now occasionally turn the pictures up-side-down or rotate 90 degrees to take in the special flare, reckoning some of the photos revealed to me more than just scientific information but also an inspiration in art. While it is through the rigid discipline, I see the realm of disciplined science, yet once abandoning the rigid discipline, I find myself immersed in the realm of art.

During the time when Professor Wang De-yu spearheaded the Yuan Ze Graduate School of Visual Arts Management as director, as my flow art is staged in two exhibitions, and I giving a public lecture, the science flow movement has become more than a professional knowledge that I rely on as a career, but also a force and a door that brings me to immerse in the realm of art. It is through the gem of flow art that I begin to aspire to art, against how I used to be clueless to the aesthetics but only worked hard on the science of mathematics and physics, stringently tackled lab work, when I was square-faced, rigid, perseverant that others see me as a truth fighter. When after exposed to art or even religion, I have not only lost my rigidity, but aesthetics now keeps me hypnotized, and the silent realm of nirvana is something I long for.

This year with student Tseng Hwa returning from Chongqing to help me complete a small dream of mine, Tseng Hwa was initially looking for a art teacher at Yuan Ze to tutor his sculpting, but unfortunately director Wang De-yu was on leave and not in Taiwan. In a chance encounter, Tseng Hwa saw heat mass conduction lab imagery and was gravitated by them who began to have the idea of sculpting the flow field model imagery. Although these scientific photos were once derived from laser projection in darkroom, through Tseng Hwa's ingenious hands, Tseng Hwa not only brought 2-D computer imagery to a 3-D form, but also projected the virtual 3-D flow art onto campus and MRT station lobbies, making it an ingenious pioneer move in how he brought the darkroom's red-flow projection models to life in broad daylight.

射才能得到的,經過曾華的巧手,在電腦裡曾華不但讓平面圖立體化,更將這些立體的流體藝術虛擬地放置於校園及捷運站大廳中, 原生於暗房的紅色流場模型居然有機會能展露於光天化日之下,真是巧奪天工的創舉。

另外康明方同學是我的碩士生,他是從熱質對流實驗室培養出來的工學碩士,在他準備出國攻讀博士這段期間,我請他做藝術助理,將以往研究生的科學圖片挑選一些,重以藝術眼光來看它們,並稍微用電腦軟體著色,亦頗有可觀之處。明方不但是從我這學習流體力學實驗,他亦選讀我在通識中心開設的佛典選讀,他研讀過金剛經與六祖壇經,亦上過王德育所長之藝術賞析的課。明方不只是個科技碩士,人文藝術素養成長亦頗令人欣慰,一個做老師,最高興的就是看到學生能有好的發展,尤其碰到能夠內外兼修的好學生。

這本書能出版,除了有曾華及康明方兩位同學的努力及創意之外,我亦必須歸功於我所有的研究生,有畢業於成功大學的:孫大正、莊柏青、鄭敦仁、陳燦桐、陳人傑;有畢業於元智大學的:李連財、魏仲義、路志強、呂俊嘉、賴順達、李慶中、侯光煦、盧明初、呂逸耕、鄧榮峰、徐嘉甫、王伯仁、林政宏、徐俊祥、粘慶忠、楊宗達、陳國誌、廖文賢、馮志成、蔡秀清、孫中剛、王士榮、鄭偉駿、周熙慧、龔育諄、莊崇文、林冠宏、康明方、蘇耕同、宋思賢、許耿豪、林君翰、歐陽藍灝、廖彧偉、許芳晨、郭進倫、戴延南、吳春淵,沒有他們當年在科學實驗室中的努力耕耘,這些美而有韻味的流體藝術就無緣呈現給讀者們了。最後要感謝教育部邁向頂尖大學計劃及元智大學人文通識倫理辦公室的支援,這本『流體之美』方能展現於世人之前。

Moreover, with student Kang Ming-fang, a master student of mine, who finds his engineering master centering on the lab work of heat mass conduction, in the period when he prepares to study for a doctoral abroad, I have asked him to be artistic assistant to sort out some of the previous postgraduate students' scientific graphics by reexamining them with an artistic eye, and tough them up with color using computer software, which he has done a remarkable wonder. More than studying under me on study flow dynamic experimentation, but also an elective student in the elective Buddhist sutra study I lecture at the General Education Center, Ming-fang has more than perused the Diamond Sutra and the Platform Sutra of the Sixth Patriarch, but has also taken director Wang De-yu's art appreciation course. With Ming-fang being more than a master in engineering, but also with impressive exposure in humanity and arts, it is the elation of being a teacher to witness the students grow positively, especially in spear-heading fine ones focusing both extrinsic and intrinsic disciplines.

Attributing not only to the efforts and creativity of two students of Tseng Hwa and Kang Ming-fang, I also own the publishing of this book to all my postgraduate students, with some graduated from National Cheng Kung University, namely Sun Da-cheng, Tsuang Poh-ching, Cheng Tun-jen, Chen Tsan-tong, Chen Jeh-jeh; some graduated from Yuan Ze University, namely Lee Chien-tsai, Wei Chung-yi, Lu Zhe-chiang, Lu Jun-jia, Lai Shun-dah, Lee Ching-chung, Hou Kuang-shi, Lu Ming-tsu, Lu Yi-geng, Deng Rong-fong, Hsu Jia-fu, Wang Poh-jen, Lin Cheng-hong, Hsu Jun-shiang, Nien Ching-chung, Yang Zhong-dah, Chen Kuo Zhe, Liao Wen-shien, Fong Zhe-cheng, Tsai Shu-ching, Sung Chung-gang, Wang Shih-rong, Cheng Wei-jun, Chou Shih-lun, Gong Yu-tusen, Tsuang Zhong-wen, Lin Guan-hong, Kang Ming-fang, Shu Geng-tong, Sung Shih-shien, Hsu Geng-hao, Lin Jun-han, Ouyang Lan-ying, Liao Ho-wei, Hsu Fang-cheng, Kuo Jin-lun, Dai Yen-nan, Wu Tsuen-zhou, for without their painstaking efforts at the science labs then, it would not be possible that these aesthetic and sensual flow art are presented to the readers. Last but not the least, I am grateful for the generous support of the Ministry of Education's University Epitomizing Program and Yuan Ze University General Knowledge & Humanity Office that made it possible for presenting the "Flow and Art" for all to appreciate and enjoy.

Sincerely yours, Director, General Education Center, Yuan Ze University

Wang Lin-wen
July 2007

心靈的原生風景

您知道白雲蒼狗的浮生世界有哪些美麗的風光嗎?朝暉夕暾、驚濤川流、洄瀾飛瀑、斷崖蒼嶺……,那些來自大自然的美,千奇百怪,人文世界所創造不了的,科學領域所無法解析的,無以名之,我只能稱它為「原生風景」。

《六祖壇經》說:「世界虛空,能含萬物色像。日月星宿、山河大地、泉源谿澗、草木叢林、惡人善人、惡法善法、天堂地獄、一切大海、須彌諸山,總在空中。」原來這就是「原生風景」!「原生風景」來自虛空,虛空存在我們的心靈,《六祖壇經》說:「自性能含萬法是大,萬法在諸人性中。」我走過許多世界的人文古蹟,終於在元智大學通識中心王立文教授的流體力學中發現真正的「原生風景」。

1988年,元智大學剛剛創立,我帶著尋幽訪勝的心情踏上草創的校園。站在一館的樓台前游目聘望,四野還是一片漠漠水田飛白鷺的鄉間景象。我的責任是國文教師,外加人文活動推手。在這兒,我認識當時的機械系主任,後來歷任學務長、教務長、副校長兼通識中心主任的王立文教授。初識王教授,我所面對的是一位思惟科學化、行事步驛謹嚴,開口帶著幾句洋文的工學學者。我忽然驚覺自己如在慈禧太后的坤寧宮中睡夢初醒的宮娥或嬪妃,一個半生大多用古文思考的中文系學究,怎麼就如此錯謬地面對這一片不僅以科學起家且教師語言多半中英文夾雜的校園。原來洋人不僅已經輸入洋槍大砲,世界早已經是國際化、網際網路化了。

1989年,在王教授的引領下,我們開始在元智大學成立師生共同研讀經典的社團。從《靜思語》到《金剛經》到《六祖壇經》;從科學的「熵」到「混沌原理」到「心靈網路」;從通識教育、全人思想到倫理與科技。在王教授的實驗室與辦公室中,門雖設而常開,學文學的、學哲學的、學藝術的、學管理的、學科技的,不同族群、不同知識背景的教授與學生不斷地穿梭進出。人文與科技不再扞格難通,一處超人文與科技的原生地帶就在這裡產生了。

The Soul of the Unspoiled Landscape

Are you aware what enchanting aesthetics that exists in the fleeting, shifting mortal world? Of sunrise and sunset, streams and waves, cascading waterfalls, tall summits and harsh cliffs, the wondrous beauty of nature cannot be created by human world, nor discerned by science, and for the lack of a better name, I can only refer to it as the "Unspoiled landscape".

As stated in the Platform Sutra of the Sixth Patriarch, "The realm of space encompasses all things of varied shapes. The sun and moon and stars, rivers and land, streams, vegetation and forests, people of good and bad, deeds of good and bad, heaven and hell, all seas, and all mountains have all existed within universal emptiness." This is what the "Unspoiled landscape" is all about, for the "Unspoiled landscape" exists in universal emptiness, and the universal emptiness rests in the soul of mankind. As stated in the Platform Sutra of the Sixth Patriarch, "The original nature can embrace all things, this is greatness. All dharmas are within our nature." I have traversed many human relics around the world, and have finally discovered the authentic "Unspoiled landscape" in flow dynamics through Professor Wang Lin-Wen of Yuan Ze University General Education Center.

In 1988 when Yuan Ze University was first founded, I found myself at the campus with a curious mind. Looking around standing in front of the building of Hall one, all around was still a pastoral rural scene of immense rice fields and passing egrets. My responsibility had been a Mandarin teacher, and an instigator in humanity activities. It was in here, I gained the acquaintance of Professor Wang Lin-Wen, then chairman of school of mechanical engineering, who progressed into dean of academic affiars, dean of student affairs, vice president and director of the general education center. When meeting Professor Wang initially, I saw an engineering scholar with scientific thoughts, stringent demeanors, who spoke intermixing with English phrases. I felt like a chamber maid or a concubine that came to a rude awakening at Empress Tzu Shi's Kuen Ning Palace wondering how a Mandarin-major scholar spending a good part of her life thinking in classic literature would accidentally stumble onto a campus founded by scientists with whose language interlaced with Mandarin and English. So the foreigners have brought in guns and munitions, and the world has become globalized and linked by the World Wide Web Internet.

In 1989, as spearheaded by Professor Wang, we began to form a faulty/student classic reading society at Yuan Ze University, and the society reading encompassed those from the JingSi Aphorism by Master Cheng Yen, the Diamond Sutra to the Platform Sutra of the Sixth Patriarch; from the scientific chaos, the chaotic theory to the network

古代希臘的科學家和哲學家往往集於一身,近代由於科學的高度專門化,各部門的科學間,已有「隔行如隔山」的情形,科學與人文學則更成為兩個世界。約在三十年前,英國的史諾氏(C.P Snow ,原習物理學,後成為名作家),指出近代科學和人文學成為深隔鴻溝的兩個文明;科學家和人文學者缺乏共同的知識、語言、觀點及相互瞭解的志趣,對國家社會的和諧,個人生命的享受,都有嚴重可憂的影響的。然而這個憂慮顯然是多餘的,在王教授引領的世界裡,我們發現了原生風景。

王教授帶領過幾十位研究生,將實驗室中一張張流體實驗的照片轉化為人工所不可及、藝術所歎為觀止的作品。有的如微風輕拂的 薄紗起舞、有的如陽光撒落大地、有的帶來滄茫的原野氣息、有的如新葉抽芽吐出鮮嫩。總之,這些作品叫人見著只能驚訝無言,因 為它包孕著世間與出世間的大美,引發著人的心靈靈思,它肯定是會令未來藝術界同聲驚嘆的創舉。如今,它即將出版問世,我帶著 無以名之的心情,再一次稱嘆:「啊!原生風景」。

> 台大中文系教授 萧 鷺 荃 於板橋玉函樓 二○○七年七月

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of spirituality; from the general education, holistic thinking to morality and technology. Through the open door to Professor Wang's lab and office, a wide range of professors and students with literature, philosophy, art, management, science backgrounds and with varied creed and knowledge backgrounds traversed in and out. With humanity and technology made accessible, an unspoiled haven transcending humanity and technology has been born.

Ancient Greek scientists also tend to be philosophers notwithstanding, the highly specialized science in modern times has led to the phenomenon of a great divide in specialized occupational knowledge, which further set apart science and humanity into two distinct realms. Roughly three decades ago, the British thinker C.P. Snow, once a physicist and later a renowned writer, has said that modern science and humanity are increasingly become two deeply divided civilizations; scientists and humanity scholars often lack common knowledge, language, viewpoints or interest in bridging mutual understanding, which in turn creates a profound, yet worrying impact in the peace and harmony of the state and society, the enjoyment of individual existence. Yet with such concern being obviously redundant, for in the realm spearheaded by Professor Wang, we have found the unspoiled landscape.

Professor Wang has successfully spearheaded tens of postgraduate students to transformer one after another of flow mass lab experiment photographs into works unachievable by human wits and superlative in an artistic sense. Some bespeak of flowing chiffon dancing to the light breeze, some resemble the sun caressing earth, some project an air of rustic ambiance, and others conjure a tenderness of budding new leaves. As a whole, the works beckon for sheer amazement, for how they encompass the greater earthly and surreal aesthetics that inspire soulful aspirations, making them no doubt a pioneering move among the future artists. At a time when the book will soon be debuted, I am aspired by an indescribable perception to marvel once more, "How swell! The unspoiled landscape".

Professor, Department of Chinese Linguistics, National Taiwan University

Shiao Li-hwa

At Yu Han Tower in Panchiao July 2007

频斯騎天

・ 滿墊成銷人少, 夢必交人刊一內勢制勁。車的前手後十五早易, 美太寶替滿藝具彩鏡寶豐滿与自肠養, 期雙戀靈其以相答文立王表的滿藝桌曲讓民場直, 美太艷流的主拳而果蒜鏡寶須由腫雅度發, 邊直辦單的滿藝擇以我而, 去香的樂圖體流其擇我問來每動曲不。重重靈寶我難, 葱美與葱煙, 葱 以的綠縣了滿法, 然自辦單如成又, (这萬變干地吹, 無效體流的來出與呈闹不玄判剝工人五。 展刊畫餘餓人最雅, 搖潭的然自我大計, 壓出的命主我小計, 購情人價的簽彩購意歸歸一了見香, 野嫁數的白黑張號一五又我, 地成即由且並, 間空剝歇的文稿我了富豐勤不滿整體流的部, 合即註一文圖显須, 集稿本一葉的我湖出嶽五朝當。美文尹去的來出當順去無如且並, 間空剝歇的文稿我了富豐勤不滿整體流的部, 合即註一文圖显須, 集稿本一葉的我湖出嶽五朝當。美文尹去的來出當順去無

The Celestial Rhythm of Nature

More than ten years ago, Dr. Wang, with his special insight, discovered that the flow pictures out of his lab were rich in aesthetic perception, when few faculty and staffs knew about art at the early stage of the university newly established as the institute of technology. He, thus, approached me on the ideas of the flow pictures. With intuitional feeling, I immediately discerned that the beauty of flow resulting from experiment was simply another type of abstract art. The flowing lines and patterns yielded under artificial conditions were so changeable, natural and simple, full of strength, movement and aesthetics to amaze me again and again. Moreover, from a piece by a piece of black and white lines, I saw a piece by a piece of great art in profound meanings and eloquent styles, which depicted not only the murmuring of individual life but also the chanting of universal nature. Such were the celestial beauty beyond the capability of human beings to create. In 1995, I planned to publish the first collection of my poems and considered theses flowing pictures as a perfect match for, on the one hand, enhancing the literary imagination and, the other hand, embellishing the reading interest of my poems.

Among numerous pictures, I tried to pick out those with not only poetic connotation but also artistic feeling as resonance to my poems. Thus, I had had the rotating ripples compared to the mood of "reading the secrets concealed in your mind so closely, bitterly and turbulently" just like rolling waves or splashing water; the innumerable falling sparkles convey the melancholy of "the bygone days nothing but ashes in the wind; the three paralleling lines of railways winding in the wild field reflect the status of "how long the life track is, how much the memory train carries"; the three same- pattern pictures shading from light to dark express "yearning for love remains all the time and touches the heart through life generations." Again and again, I was fascinated by those appealing pictures produced through the projection of the light and shadow: they were sometimes the light and cloud on the sky, so tranquil to make one trance; sometimes drapes fluttering with the wind in the moonlight, so beautiful to make one sigh; and sometimes the candle light flickering behind the long curtain, so bewitching to break one's heart. Yet, there were still more pictures for no words, just like Zen paintings.

In 2000, I intended to publish the second collection of my poems and sought for the cooperation with Dr. Wang again. With the advance of computer technology, this time all pictures could be not only colored but also composed as freely as possible, which added more visual effects to make the flow art simply compare to the abstract masterpieces of contemporary. Through the computing process, the pictures, in addition to good presentation in colors, also shows the aesthetic rhythm of the change of lines distinctly. There were lines sometimes akin to water flowing peacefully with the implied ideas of "movement with stillness; stillness with movement"; sometimes

了滿決斜線的關촉,市綦不新景告海,點意斷山景的見當量。姿為是土發陸的水雨光天堂即苗禾出大的野田麥海田樂高墩也報官: 內如強敵火蜜素,嫁遊斷並的友合焚以斜線) 會禮的量銷。計旦的然自長路歸一每。變惡的安不又方高人至,惡健既鉅

批支的差關機對本。漢讚又奇讚人令果結與野監的與轉,貶出先訊同不的骨強訊閱顧一以更再兩藝體流聞意,對玄好春聞六、正又 目、兩藝面平的錄替試具點瀏圖體流訊具裏兩藝其用帶算任只視、華曾一主流交的陸調對主學人變重自來了留如硝苦王聞譽爭令,不 野球然自體流出讓奚勤不、野訊變動各的間空更三五賴誘攝处野嫁剝線圖點,兩藝壁鋼的凝劃試與轉兩藝面平明此具歐思內陷帥 劃升貶的友(snooM vmsH)簡劑時享官:計三升展出而,具壓為風漲品計候鋼計一每。 小變線曲的纸畫壁調著瓤和且並,熟美替壓的 養工實與路的先(qnA ms1)普爾阿韋也:斜闊實點的間玄林寶與間空與親,稅與線曲泳水且,蒸稅茲處所所含與體主品引,為風壁 養工實與路的先(qnA ms1)普爾阿韋也:斜闊實點的間玄林寶與間空與親,稅與線曲泳水且,蒸稅茲處所所含與體主品引,為風壁

勳發刑學人肾元

部 高 日十年十〇〇: resembling vines creeping onto the gray wall with the feel of moving upward the sky; sometimes like seedlings of cereal crops growing in the field with the posture of prospering in the sun and rain. The most common were those like swift current in the ravine stream or the waterfall flying down, lines of which were full of galloping energy. However, no lines were more dynamic than those in form of flames, just like Van Gogh's vortex style, expressing the strong movement of blazing which makes one excited and restless. Every one was a masterpiece of nature.

After five years, the art flow again appeared in a completely different form with the changing course and outcome so amazing. When Tseng Hwa, an undergraduate from Chongquing University, came as an intern student under supervision of Dr. Wang in the summer of 2006, he took advantage of his specialization in sculpture to elaborately transform the flow art from plain picture into virtual sculpture, which made line patterns all condensed into the various three-dimensional forms, not only giving the unique aesthetic of natural lines but also responding to the curving changes of sculpture construction. Each has its artistic style in comparison to the works of contemporary masters. They are such as Henry Moore whose works are pierced or containing hollow places or undulating so as to show the relation of abstractness versus concreteness of space and I materials; such as Jean Arp whose works are in his personal style of abstract compositions through an organic morphology, frequently sensuous in form.

The decade-long process of the abstract art evolved by Dr. Wang from his experimental flow is very similar to the mode of Op Art created in 1960s, a work with movement which may be mechanically powered (for example, by electricity, or air or water motion), known as "Kinetic Art". Such kind of visual art is elaborately designed. In the developmental process, Dr. Wang's flow art has also experienced three different visual stages: from the early embryo of black and white pictures, to the brilliant abstract art, and then to the virtual sculptural form, each of which is imbued with natural rhythm. I appreciate different presentations of flow nature, be it simple or complex, all are wonderful in different dimensions. The flow lines, changing with conditions given, are not merely the result of natural exploration but also the revelation of universal nature related to the spirit of the whole creature, from which we come to comprehend that the nature is the great presentation of art and art is that of life.

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