

# Bauhaus, Constructivism, Performance

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In the winter of 1929, the Bauhaus arranged one of its famed parties to which guests of the Dessau art school were invited to wear “something metallic.” The Metal Party, with its fantastical metallic costumes, and decorations placed throughout the studios, stairways, corridors and open areas, was documented by a few photographs and described by a local newspaper. The tone of the review is full of awe at the inventiveness of the *mise en scène*. The entire new building in Dessau, which opened its doors in 1925, had been transformed again for a temporary festivity inspired by the design vision that undergirded the various disciplines taught in the art school’s curriculum. In the following, I shall raise some questions about the performance vision implied by these large scale parties (e.g. the Kite Festival, the Lantern Festival, the White Party, etc), trying to link it to the Bauhaus dances, Moholy-Nagy’s constructivist film/photography, and the theatrical legacy of a radical “design-in motion” concept largely forgotten today. Curiously, Oskar Schlemmer’s design-choreography has been mostly treated as a minor historical footnote, whilst it actually, as I will argue, deserves to be more fully examined in the context of 21<sup>st</sup> century digital art and performance installations.

Since the Bauhaus was predominantly an academy for the visual arts, crafts, and architecture/design, the presence of Schlemmer’s stage workshop seems, at first sight, to have been peripheral, whereas the theatrical parties, from the beginning, found a prominent place in the school’s annual calendar. Playful exuberance was encouraged, we learn from the recent exhibition *Bauhaus: Art as Life* at Barbican Art Gallery, London (May 3 – August 12, 2012), which foregrounds such scenes of lively social choreographies. One photograph shows “the building as a stage,” with six actors posing on the various floors in masks and costumes, arranged in a vertical/diagonal configuration that renders them almost as architectural elements. More interesting, for the archaeology of site specific performance, is the transformation of architecture into a stage world, including Schlemmer’s musical stairs and the innumerable glass spheres suspended from the ceiling, which inspired some of the artists to photograph themselves against refractive surfaces. Another image shows members of the stage workshop in costume on the rooftop, and others depict party-revelers at the Metal Party arriving in outrageous costumes made of aluminum foil, pots and pans, spoons, or other functional metallic materials, to slide down a metal chute erected to connect the two Bauhaus buildings. The catalogue tells us that the parties moved from imaginative improvisations to the rhythm of the seasons during Weimar, with the Lantern Festival in the spring and the Kite Festival in the autumn, to spectacular and monumental stage productions in Dessau, where these celebrations served to promote contact between the school and the public, with attendance from locals and party-goers from further afield, thus making the school a lively cultural center. The parties were considered important by the master teachers (Johannes Itten lectured on “our play, our party, our work”), and judging from the photographs the festivities gave free rein to the masters and students to demonstrate

their creativity and design invention, providing numerous opportunities to conceive invitations, posters, costumes and decorations.(1) There seems to have been a method in these performative festivities, at least



Figs.1-2 Oskar Schlemmer, *The Building as Stage* [left], 1928, Gelatin Silver Print 17 x 4.1 cm. Photograph attributed to T. Lux Feininger or Erich Consemüller. Bauhaus-Archiv Berlin. *Members of the Stage Workshop on the roof of the Bauhaus Dessau* [right], 1927. Photo Archive, C. Raman Schlemmer.



Fig. 3 *Nonsense Soldier* at Metal Party, 1929, Bauhaus-Archiv Berlin. Photographer unknown. Courtesy of Barbican Art Gallery.

Schlemmer clearly articulates the precise need to “evolve parodies” of all existing theatre forms. This formulation took me by surprise:

The endeavours of the Bauhaus to integrate art and artistic ideals with the craftsmanship and technology by way of investigating the elements of design, and the attempts to direct all activities together toward architecture, naturally exert an influence on the work of the stage. For the stage is after all architectonic: it is ordered and planned, and it provides a setting for form and colour in their liveliest and most versatile form. The stage was there on the very day the Bauhaus opened, because enjoyment in designing was there on that first day. This enjoyment was first expressed in the celebrations (the lantern party and the kite-flying party), in the invention of masks, the making of costumes and the decoration of rooms. And it was expressed in *dancing, dancing, dancing!* The music evolved from the Bauhaus dance, which developed from the clown dance into the ‘Step’; from the concertina to the jazz band. From this ‘dance for everyone’ evolved the ‘dance for the individual’ and its reflected form on the stage: the chromatic-normal, the mechanized *ballet*. From inspiration, whim, and a mind to do something primitive, evolved parodies on existing theatre, opera, drama, circus, and variety shows. Such travesty has positive results: the understanding of the origin of the theatrical play, its conditions and laws. We are breaking conventions where they seem to be already shaky, and we are experimenting with creating new forms. Where can we create such new forms?

In our particular field, with our particular means, by providing the eyes with what is due to them, everything in the realm of the visual, the *show*. The elements of that realm are form, colour, light, space and movement. The inherent laws of these elements, both the mathematically precise as well as the intangibly metaphysical, will aid our understanding of related and complementary elements, such as language, word, tone, and sound. Our work is to serve research experiments... (2)

I quote the full passage as it has the character of a manifesto, reflecting the extent to which Schlemmer envisioned evolving new versatile physical languages (his plan to stage a dramatic work based on the structure of a building, *House of Pi*, was not realized) that drew on all available “elements” – media as we would say today – to play with abstract (mathematical), material, and metaphysical dimensions. Seeing him, in a 1926 photograph, perform *Musical Clown with Cello*, dressed in a colorful skirt and holding an elongated rectangular “cello,” one senses this celebratory enjoyment in designing new performance forms through invention of shapes and moving-object mutations. Light-footed, animated, he is the clown that does research into kite-flying – the mathematics of dance (*Bewegungsmathematik*) and the mechanics of joints only a pre-text for the deframing of the figure and the extrusions of the “figural,” as Deleuze will call it (in his writing on Francis Bacon who also distended the human body in ways we had barely imagined).

In retrospect, as we watch old archival footage of his pieces and the few recreations that were attempted, we can also see the cinematographic/digital imagination implicit in this work, the freeze-frames and stop-motion images and reverse angles, the montage of movement-images, the transpositions and recombinations of elements, the counterpoint between dancing and not-dancing – his objects always acting as strange rearticulations of motion. I will return to this idea of the “choreographic object” at the end of the essay.

Founder Walter Gropius’s experimental model of education eventually focused on the development of prototypes that might yield commissions, bringing the school closer to its aim of combining artistic inventiveness and industrial production or, as Gropius had formulated the new credo at the 1923 Bauhaus

exhibition, to demonstrate the fusion of “Art and Technology.” Large-scale technical reproducibility of the objects designed at the Bauhaus was never quite achieved, contrary to the reputation the school was able to build up for its modernist aesthetic. Marcel Breuer’s tubular steel chair B3, later named “Wassily,” of course became an icon of Bauhaus design, even as Breuer tried hard to get his own patent and secure his artistic authorship of the furniture. From the photographs we also gather Breuer’s irreverent wit; he created a photomontage for Gropius in which he performs in drag, portraying himself Kazuo Ohno-like as a “woman with a magnolia” and presenting it as a gift to Gropius.(3)



Fig.4 Erich Consemüller, *Untitled*, Lis Beyer or Ise Gropius sitting on B3 chair by Marcel Breuer, wearing mask by Oskar Schlemmer and dress fabric by Lis Beyer, c. 1927. Gelatin silver print, 12.9 x 17.9 cm. Herzogenrath, Berlin. Courtesy of Barbican Art Gallery.

Compared to the Metal Workshop or the Furniture Workshop, and the other master courses for technical and manual skills in wood, stone, glass, textiles, paint and clay, the stage workshop was unlikely to be considered the most pragmatic area for the realization of new design products for the *Kunstgewerbe*, i.e. the market of goods which the Bauhaus would later supply with objects reflecting *Neue Sachlichkeit*, functionality, craftsmanship, and the use of modern materials and construction methods. In 1925, the Bauhaus GmbH company was founded to sell products from the workshops, taking over advertising and marketing, and the Bauhaus had of course already established its own printing press and invented its own typographies.

But the stage laboratory gained a particular role in the interlinking of activities, combining art, craftsmanship and play, and since his arrival at the Weimar Bauhaus in 1921, Schlemmer – who first led the Wood and Stone Workshop, then the Sculpture Workshop – took on many of the preparations for the festivals, initially supporting the irreverent and humorous student shows that revealed in Dadaesque puppetry, pantomime and satire. Behind the scenes of Bauhaus architecture, Schlemmer assumed important tasks as a kind of multi-media impresario.

Painting, wood, stone, sculpture, performance – this odd combination immediately makes more sense if we recall that Schlemmer was a visual artist, and his *Triadic Ballet*, the dances for which he is mostly

remembered, had already been composed between 1916-22 and first premiered in Stuttgart in 1922 before being presented during the 1923 Bauhaus exhibition. His work as a painter, sculptor, and designer effectively motivated his experiments as a choreographer and his lasting concern with space and plasticity. The latter, which was akin with the architectonics Gropius imagined for the Bauhaus “building” design approaches (interior and exterior design of modern “life processes”), was inscribed into the main activities of the stage workshop: the investigation of space, form, color, sound, movement and light.(4) Schlemmer’s paintings, after his early exposure to cubism, reveal a growing interest in the human figure and the mathematics or geometry of the structure of human form. His figure paintings could be considered stage paintings, as already in the 2D works Schlemmer creates during the second decade of the 20<sup>th</sup> century he examines the contrast between flattened and voluminous space and the implications of motion-through-space.

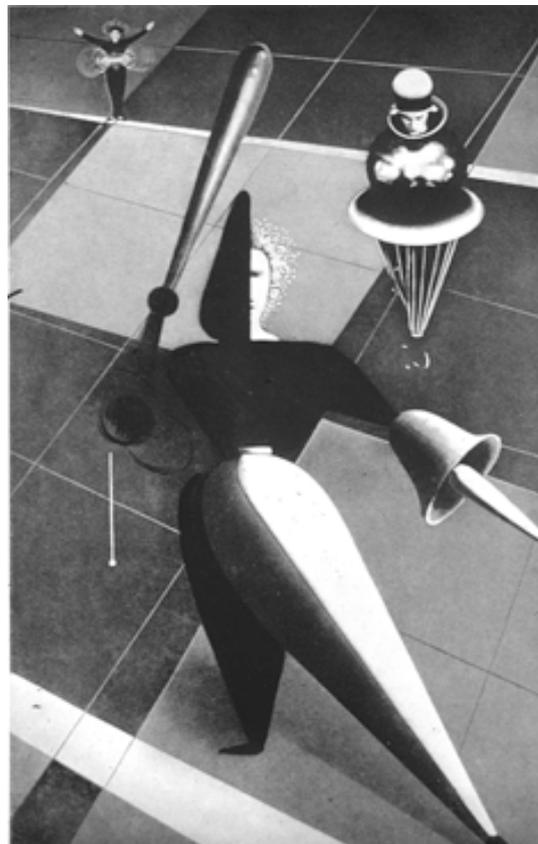
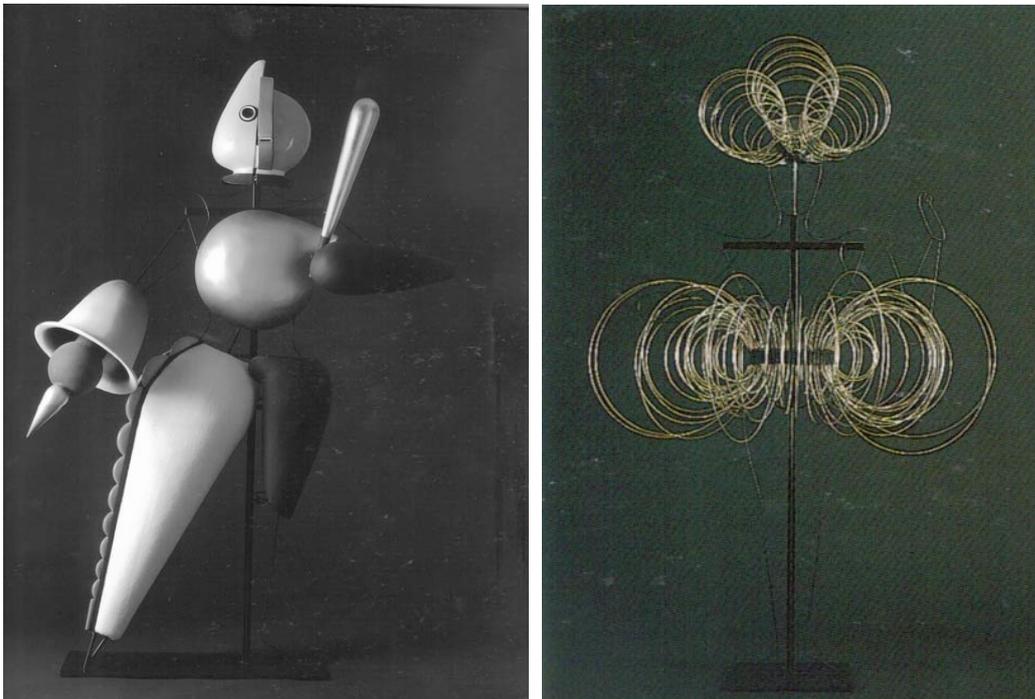


Fig.5 Oskar Schlemmer, *Study for “The Triadic Ballet,”* gouache, ink, and cut-and-pasted gelatin silver prints on black paper, 57.5×37.1 cm, 1921-23 (New York, Museum of Modern Art); photo © The Museum of Modern Art.

During his work on the *Triadic Ballet*, a key aspect of the construction of spatial dynamics is the function of the costume. While his later Bauhaus dances have been called “gestural” or “spatial” performances (also involving a strong emphasis on light projection), the *Triadic Ballet* – in its full version comprising three acts, three performers (2 male, 1 female), twelve dances and eighteen costumes, with each act displaying a different color and mood – displays a predominantly sculptural leitmotif. With exaggerated headdresses and masks, bulbous padded torsos and outfits built with wiring and concentric hoops, extended prop-like limbs and conic or spherical appendages, the *Triadic* “figurines” are constructed to impede movement or shape it

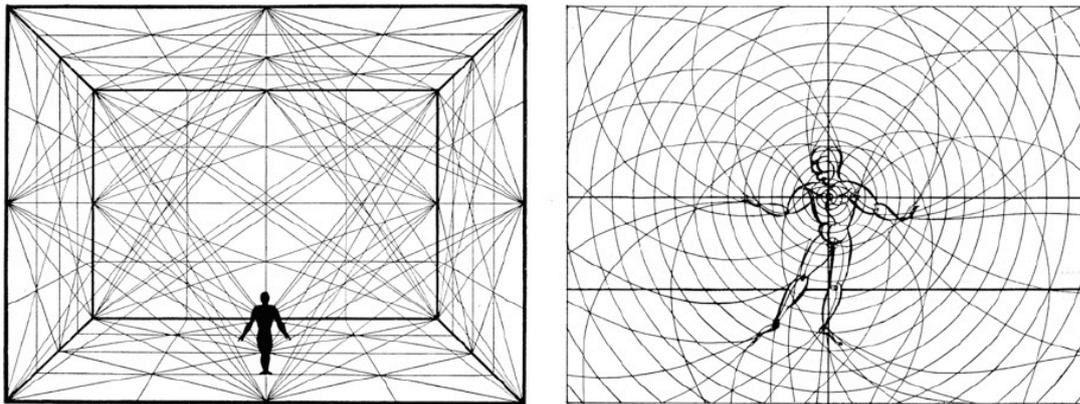
in very particular ways, drawing attention to the constructedness of the costumes as well their materials. The “Abstract One,” a figurine from the Black Section, for example, creates an oscillating effect with its black/white contouring and the different prosthetic-like arms on either side (echoing the triangular, circular or tubular shapes of the sculptural costume). The stylized motion required to move the costume across the stage would impel arhythmic, animated steps, intercut with stillness, or a spinning motion that allows the performer to show off the entire 360 degrees of the shape. It is tempting to think of the Japanese *hanamichi* or the fashion runway as a parallel to the multidirectionality required here for the movement-display of the costume, a requirement less easily met by the proscenium stage than by more contemporary installation designs allowing audiences to view or engage action from any side. The reference to fashion is by no means facetious, as I think Schlemmer’s costumes provided considerable stimulation to de/constructivist fashion designers like Issey Miyake, Rei Kawakubo or Walter van Beirendonck who in their various ways experimented with eccentric combinations of materials and the kind of padded garments that Schlemmer used. Kawakubo, for instance, became well known for her bulbous, padded *Dress Meets Body, Body Meets Dress* collection of 1996, and designers like Hussein Chalayan and Alexander McQueen have had a penchant for extravagant runway presentations and cross-media scenarios informed by avant-garde installation/performance art.

On the geometric lines, spirals or squares that Schlemmer drew on the floor, the motion might also appear as the movement of chess figures involved in a mysterious abstract game or mathematical series.(5) We do not see the human body or face of the performer; s/he is completely enveloped or masked by sculptural form, and this aspect of Schlemmer’s choreography is particularly interesting as it rejects the expressionism and mimetic theatre conventions of the time, while it also runs counter to all later realist theatre and



Figs.6-7 Oskar Schlemmer, *The Triadic Ballet*, models for *The Abstract* (left), *Wire Figure* (right), 1922. Bühnenarchiv Oskar Schlemmer.

essentialist – or deconstructive – body art performance traditions of the 20<sup>th</sup> century, the latter depending on foregrounding physical corporeality and social/gender/racial inscriptions of the body. Schlemmer's choreography, without denying bodily materiality, tends to neutralize it insofar as his designs were first drawn and theoretically conceived (on paper), to be applied in motion in order to explore geometric principles and what he considered the “the laws of motion of the human body in space.”(6) Schlemmer's “mapping” of the figure in space is most beautifully captured in the two drawings of *Figur und Raumlineatur* and *Egozentrische Raumlineatur*, both published with his essay on “Mensch und Kunstfigur.”



Figs.8-9 Oskar Schlemmer, *Figur und Raumlineatur* (left), *Egozentrische Raumlineatur* (right), pen and ink on paper, 20.6 cm x 26.7 cm, 1924. Bühnenarchiv Oskar Schlemmer.

Interestingly, in this mapping he draws the un-costumed human figure inside a cubic stage space or container, *Figur und Raumlineatur* (Figure and Space Delineation) showing a full stage environment with a static figure downstage center, whereas *Egozentrische Raumlineatur* (Egocentric Space Delineation) resembles a close-up shot of a figure in motion. Trimingham acutely observes how Schlemmer indicates, in the essay “Mathematics of the Dance,” that using mathematical principles to measure space necessarily involves treating space as abstract, stable and Euclidian, whereas the body in motion is no longer a simple measurable phenomenon.(7) The horizontal, vertical and diagonal lines in *Figure and Space Delineation* position the human figure in the center of an imaginary space or volume, and one senses that Schlemmer wants to “delineate” the space perception felt by the performer, the perception of volume and the interconnectedness to the surrounding space. Keeping in mind the multidirectional movement I briefly described in regard to *Triadic Ballet*, Schlemmer here views the dancer involved in a strictly mathematical and geometrical space, in which precise “mechanical” movements can be performed. But in *Egocentric Space Delineation*, the dancer moves in the center of attention producing a net of radial motion, perhaps as an effect of more organic movement within a pulsating environment that lacks a depth dimension.

In these diagrams, or biograms, we recognize two approaches that may reflect Schlemmer's view of “man” being a combination of mechanic and organic components, the latter implying an animating force (the concentric lines pointing to the heart or away from it) and a dynamism which point to Schlemmer's continuing interest in Gestalt psychology and a movement-space-making (*Gestaltung*) approximating the new phenomenology of the “event” (as it was later explored in Merleau-Ponty's philosophy which argues

that there can be no space experience without body) – and surprisingly Schlemmer even thinks of this becoming-event (he uses the term in a 1927 lecture on “bühne” [stage]) as a quasi-magical relationship with space. In an inverted relationship of the delineations, space also makes body, i.e. spatial organization forecasts and inflects movement. On the philosophical level, then, Schlemmer envisions the figure-body of the dancer to become a temporal Gestalt, transforming space and the abstract theatrical stage through movement into a fluid force field. Trimmingham considers this anthropomorphized space an expression of metaphysics through physical means. The figure curves and modulates space-time, seemingly transporting Kandinsky’s dictum of “point and line to plane” into a new, almost anti-gravitational dimension of bodily Gestalten that Kandinsky’s system of composition did not allow (in *Concerning the Spiritual in Art*, Kandinsky had stated that in a composition in which corporeal elements are more or less superfluous, they can be omitted and replaced by purely abstract forms, or by corporeal forms that have been completely abstracted).(8) Schlemmer’s abstraction does not omit the figure but figuralizes spatial organization – a kinaesthetic vision to which William Forsythe’s dance works and choreographic installations are much indebted. We now credit Forsythe with coining the expression “choreographic object.” His objects, for example *The Fact of Matter*, *White Bouncy Castle*, *Scattered Crowd*, *The Defenders* and the online research project *Synchronous Objects* (<http://synchronousobjects.osu.edu>), transpose dance from the stage into other manifestations – participatory installations, architectural environments, cartographies, soundings, the digital platform with its animated graphic materials, generative data and algorithms.

Consequently, *Kunstfigur* is not to be confused with inanimate objects or marionettes: the figural ambiguously combines the living organism with the artificiality of costumed, masked or accessoried plasticity, necessarily redistributing the centers of gravity if the costume’s material animates and torques the body in particular ways. The fluidity of space explored in Schlemmer’s dance works – and “dance” was a term Schlemmer only used for lack of a better word – requires what we today call *embodiment*, a real body extended into living spatiality. Yet the costume-materials provoke the double (artificial) construction of a kinaesthetic body *and* animated design. Contemporary architects like Marcos Novak, Greg Lynn or Lars Spuybroek have seized upon this idea of a breathing or liquid architecture, often using time-based animation techniques to inform architectural design, animating form and overcoming ideas of the static, fixed, and inert nature of architecture to transform space and form into highly plastic and mutable entities. With the help of software not available of course to Schlemmer, they use topological geometries to twist, bend, deform, and differentiate structure, almost bio-morphogenetically, perhaps even to imagine a “performative” architecture. At the 2012 Kinetica Art Fair in London, Greek architect Alexandros Kallegias and the Sharisharishari Studio introduced a tensegrity canopy design model constructed from biometal/artificial muscle material which can flex in response to touch, light and sound, suggesting that built architecture could behave like skin.

Schlemmer’s hardware and software tools, so to speak, were his costumes and the accessories he used in the Bauhaustänze, allowing him a range of possibilities to change bodily relationships to the exterior space and, I would argue, also to interior “egocentric” experience of the performer who had to *wear space*, so to speak, and develop particular haptic sensibilities. Taking the figure and continuing its borders (for example, in

*Pole Dance or Hoop Dance*), Schlemmer wrapped it and folded it into an enlarged context.

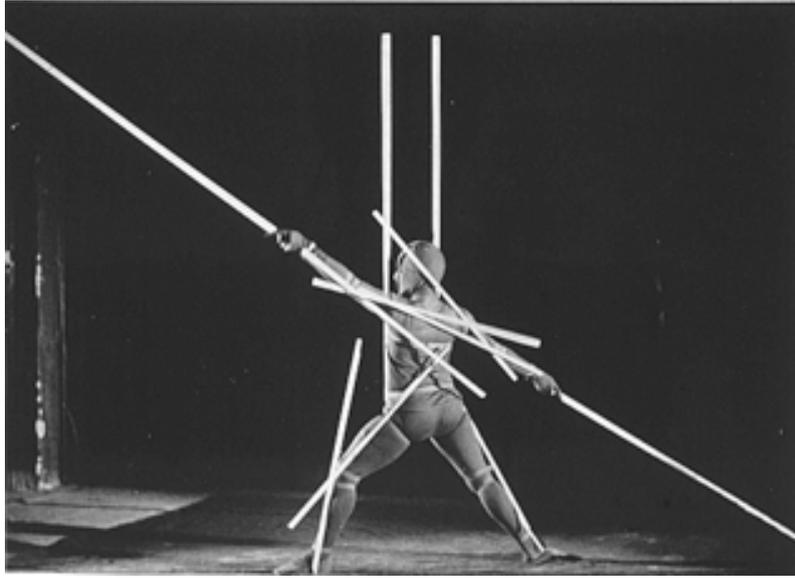


Fig.10 Oskar Schlemmer, *Bauhaustänze, Stäbetanz* (Pole Dance), 1928, Vintage Print, altered and mounted by the artist, 17.5 x 11.3 cm. Photographer: T. Lux Feininger; dancer: Manda von Kreibitz. Bühnenarchiv Oskar Schlemmer/The Oskar Schlemmer Theatre Estate Collection UJS.

Schlemmer's most significant contribution to modern and postmodern theatre/performance is this insistence on choreographing with costume-materials and abstract non-mimetic, non-narrative action. One can also call it a form of non-acting even if the animated *Kunstfigur* (art figure) – and Kleist's famous essay on the marionette theatre looms behind it – requires a technique similar to the relationship we recognize between puppeteer and puppet. The performer of Schlemmer's *Triadic Ballet* figurines is the (unseen) puppeteer, the "operator" of the costumes (puppet) or material form. In terms of contemporary digital performance we can describe Schlemmer's constructivist approach as an operational system; the material determines the movement, stimulating articulation and emergence, perhaps even inducing involuntary movement (a movement quality much appreciated by Stelarc or Marcel-lí Antúnez Roca when they invite the body to be stimulated via electrical signals), which would not contradict Schlemmer's emphasis on the figure and its precise adaptation to space and internal/external rhythms. Figures, plasticities, light, sound are construction processes as well as technical organisms, silhouettes of scenic rhythm. The costume materials in-form the interactional movement scenarios, with light and sound, but the technical system is also modular and distributed. Thus Schlemmer is not interested in expressive musical accompaniment but in formal precision of physical/rhythmical tones and percussive noises.

Material movement and material sound – and silence – are spacings, spatializations exactly as noise artists and sound composers of the *musique concrète* movement would later explore them to a much fuller extent, initiating the extraordinary constellations of sound/phonographic/electronic art in the 20<sup>th</sup> century recently reviewed in the ZKM exhibition *Sound Art: Klang als Medium der Kunst* (<http://soundart.zkm.de/>).

Schlemmer knew of recording and amplifying technologies but did not have access to them at the Bauhaus; from his writings we gather that he was imagining the stage as a synaesthetic system, with the visual and aural intermeshing as discrete elements, polyrhythmically co-existing. In biological terms, the system

behaves like the dynamic of a living organism subject to environmental influence and adapting to it: “The Abstract,” “Wire Figure,” “Spiral,” “Golden Sphere,” “Disk Dancer” becoming more complex, variegated, or modulated, especially in their contrapuntal differences, and the dance pieces were of course shown in series, crystallizing different accentuations and colors. “In *The Triadic Ballet*,” Raman Schlemmer writes, “it is the costume that determines movement, conditioning the dancer to new expressions. As much as the static, sculptural costumes and masks inhibit the dancer’s range of motion – in a synthesis of body and costume – they introduce, encourage and intensify specific new movements. The costumes become ambulatory architectures. *The Triadic Ballet* and, in particular the figurine *The Abstract* are a leitmotif in the Gesamtkunstwerk of Schlemmer.”(9)

In the early work the operations are mostly performed on the costumes which he had drawn and sketched beforehand, the built-up costumes constricting movement in particular ways, as I suggested above. In the Dessau Bauhaustänze – a series of eleven short pieces including *Stäbetanz*, *Metalltanz*, *Glastanz*, *Reifentanz*, *Kulissentanz*, etc. – the emphasis shifts to performance with objects or accessories that are operational extensions of the bodily architecture and again affect the spatial dynamics of the performed movement as well as the entire environment, for example in *Metalltanz*, with light reflecting off the metal surfaces of set and costume. Here the embodied presence of the operator and the choreographic operations become even more fascinating as radical instances of an abstracting aesthetic that resists representation (and any mimetic associations of “puppet”) but reveals, all the same, a complex manipulation of the textural characteristics of the object. Schlemmer’s predecessor in the stage workshop, Lothar Schreyer, had favored expressionist theatre performance. But with the arrival of Schlemmer, Moholy-Nagy, and also Kandinsky, the new scenic and light experiments clearly point towards abstraction and a constructivism affected by the revolutionary art created by the Russian avant-garde.(10)

Soviet constructivism, if we think of the socialist modernization envisioned by Tatlin, Rodchenko, Popova, Stepanova, Exter or Vesnin, endeavored to use analysis of the materials and forms (of art) for utilitarian purposes, for the design of functional objects and the organization of a new society. Such a productivism must have chimed to some extent with the rationalist, functionalist ideology prevailing at the Bauhaus (when they were designing objects and not letting the kites fly). After all, the utopian ethos of the Bauhaus architects and *monteurs* harbored the same monumental vision for the building of a “cathedral of socialism” that Tatlin encapsulated in his Tower. Yet we also recall that Kandinsky’s spiritualism was viewed with skepticism by the Russian avant-garde, forcing him to leave Russia, as he was later forced to leave Germany under the Nazi regime that declared his work degenerate. Kandinsky’s more playful, malleable and biomorphic shapes, painted in exile in Paris, reverberate with the bio-constructivist tendencies in Schlemmer’s Bauhaustänze – and the humorous tone of the latter is perhaps not acknowledged strongly enough. Schlemmer, the Musical Clown with cello, launched his body-figures into space, sound, light. Rhythms can parody design, too. Some of the equilibristics in these object dances remind me of Japanese Kabuki performances, with their attenuated gestures and freeze-frame postures. They play with perception, and they sometimes appear hobbled in a Buster Keaton sense. We can now turn to the peculiar rhythms and montage techniques in Schlemmer’s and Moholy-Nagy’s work in order to circumscribe the new “art and

technology” envisioned here, pointing beyond the “form follows function” design concept associated with the Bauhaus.

Unlike Moholy-Nagy, Schlemmer did not work directly with new media technologies available back then (photography, film, photomontage), but his vision of the future theatre encompasses a wide range of transformative means, and a graphic emphasis on fluid plasticity that is now often taken for granted on the digital stage or in virtual reality design. The 1923 Bauhaus exhibition featuring Schlemmer’s *Triadic Ballet*, in a program titled *Mechanical Cabaret* also featuring Kurt Schmidt’s *Mechanical Ballet* (a performance presenting abstract figures with brightly colored cut-outs of geometric forms attached to the dancers’ black leotards, moving across the stage like automatons), indicates that Schlemmer himself was less interested in the robotic or machinic even though he enjoyed the clownesque humor underlying the mechanics, lighting effects and collapsible flats. The technical problems that occurred during the *Cabaret*, turning the “art and technology” motto into something of a joke as Trimmingham concludes, contributed to Schlemmer’s reservations about a mechanical theatre. His respect for Meyerhold’s biomechanics and his plans for expanding the *Triadic Ballet* suggest that he was more concerned with the development of the figural, and with complex choreographic organization of the kind that choreographers of the current technological/digital era have favored when they strap wired exoskeletons on dancers (for motion capture and telematics) or build interface/screen systems that respond to motion in real time, enabling co-evolutions between bodies, wearable technologies and computational environment, as Yoko Ando recently demonstrated in a performance of *Reacting Space for Dividual Behavior* at YCAM (Japan).



Fig. 11 Yoko Ando, *Reacting Space for Dividual Behavior*, YCAM 2012 © Courtesy of YCAM.

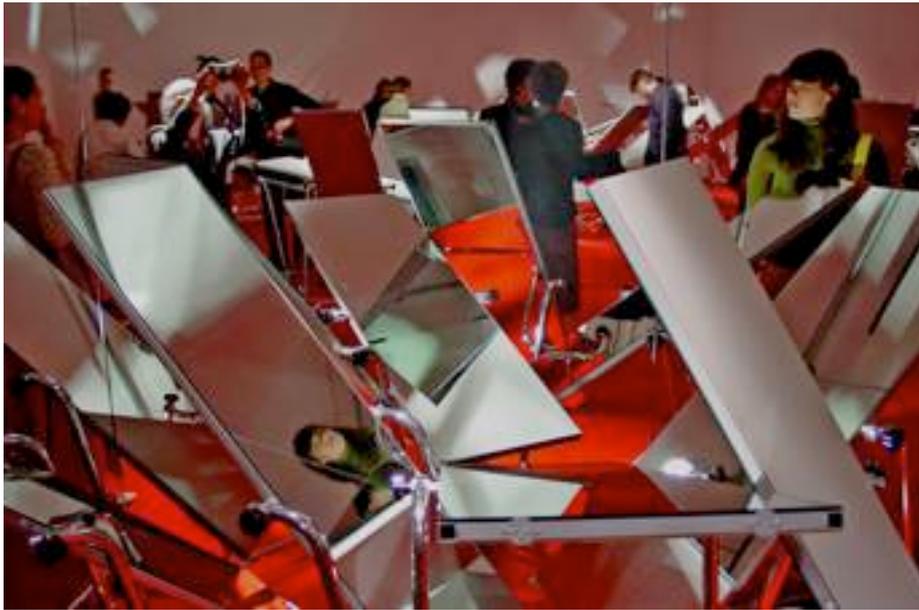


Fig. 12 William Forsythe, *The Defenders (Part Two)*, Choreographic Object; carpet, mirrors, printed jackets; *While Bodies Get Mirrored. An Exhibition about Movement, Formalism and Space*, 2010. Zurich. Photo: Courtesy Migros Museum für Gegenwartskunst.

Ando's choreography, using the Kinect camera interface to interact with projected virtual geometries, and Forsythe's choreographic object installations in which the visitors engage an environment filled with mirrors and tables, echo Moholy-Nagy's intermedial assemblages and the claim that the application of new techniques, from photomontage and photoplastics to engineering and science, inevitably generates new perceptual relationships. A theatrical collaboration between Moholy-Nagy and Schlemmer would strike us as logical, but the two artists worked side by side, not together. The challenging paradox of Schlemmer's design-in-motion is that he was not only developing the precursor forms of today's "wearables" – already overcoming the framing function of the screenic or technical image (photograph, cinematic frame, etc.) and empowering the body as an articulator of spatial information – but also a new performance technique which, in his writings, he clearly imagines to be a figural poetics of movement.<sup>(11)</sup> The performance of the objects and accessories, especially in *Stäbetanz*, *Reifentanz*, and *Glastanz*, but also the use of light projections and shadows in *Lichtspiel*, implied a careful task-oriented movement style of gestural behavior (completely uncommon at the time, it would later form one of the primary methods in the Judson Church era of postmodern dance, Fluxus and Happening) which gained its poetic quality through Schlemmer's insistence on the formal power of the total *Gestaltung*, the complete spatial rhythmicization through plastic structures.

If we look at a sequence of the animated poles in *Stäbetanz*, we see the mutating shapes, lines and patterns created by the performing body with its extended limbs, the wearables here generating a mobile visual geometry and tensile relationships which construct new perspectives through *pure manipulation*, as Moholy-Nagy would call it – pushing far beyond a simple mechanistic/functional approach.

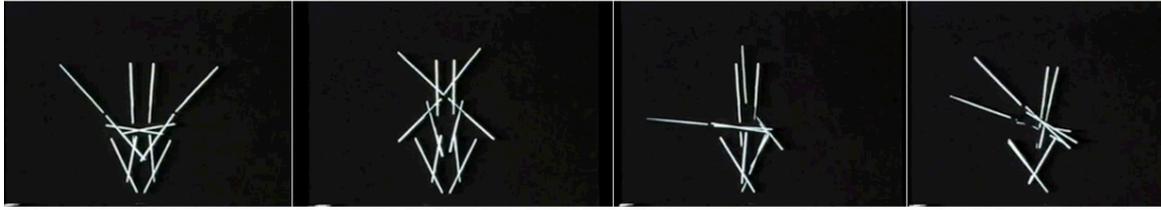


Fig. 13 Oskar Schlemmer, *Stübetanz*, 1928, video still sequence from Debra McCall's reconstruction, with Jan Hanvik performing. © 1982 (film) / 2009 (digital). <[http://bauhausdances.org/POLE\\_DANCE.html](http://bauhausdances.org/POLE_DANCE.html)>

The poetic quality of these figurations is also effected by the illumination of the white poles against the dark space; the chiaroscuro line “drawings,” with their strong light/dark contrasts and clear architecture, transform pictorial space into 3D cinematic space. One immediately thinks of Moholy-Nagy's film *Ein Lichtspiel: schwarz weiss grau* (Light Play: black white grey), created in 1930 with the kinetic assemblage/sculpture (Light Space Modulator) built to produce the mesmerizing shadow and light effects. The Light Space Modulator was a motorized sculpture made of glass, mirror, steel, and acrylic. It became a crucial object for Moholy-Nagy for more than two decades, and after constructing it (1922-30), he displayed it both as a kinetic installation and made the film with it, originally meant to consist of six parts, but only the last part was filmed. The first five parts were supposed to show different forms of light in set combinations: from the self-lighting match, automobile headlights, reflections, moonlight, and colored projections with prisms and mirrors to the refractive production of the “light prop” itself. The surviving silent film segment is listed with a 6-minute run time, but several excerpts and variations exist; they reveal Moholy-Nagy's constructivist aesthetic and his interest in Tatlin, Malevich and Lissitsky, with their visions of aerodromes and radio stations, architecture of mass communication for the new world, as well as his preoccupation with the kinetic “organism of motion” in the city, with its skyscrapers, factories, and the developing industrial landscape of the early 20th century. Alongside the new typographies with floating letters which Moholy-Nagy designed for the Bauhaus publications, his photograms (photographic images made without a camera when objects on coated paper are exposed to light) and photoplastic experiments (multiple photographic re-mixes of his montages) show his fervent embrace of the new technologies.

The organism of motion, envisioned as a Light Prop for an Electric Stage, was designed as a kinetic sculpture composed of color, light and movement. Moholy-Nagy here literally imagines light as performance art, the “light play” of a cubic box, containing a glass and polished metal mechanism, placed alone on a darkened stage, with the audience watching (through a porthole in the box) how the machine responds to an illumination sequence created by innumerable colored light bulbs flashing on and off. This theatrical vision, developed in tandem with Gropius's plans for a “Total Theatre,” must have bemused Schlemmer, but Moholy-Nagy underlined his belief in a technologically oriented future in the groundbreaking *Malerei, Photographie, Film* (1925), published as part of the Bauhaus books, where he develops his theoretical ideas on photography and film, juxtaposing examples of photograms, photoplastics,

photomontage works, double exposures, solarized images, mirror reflections and distortions, aerial and microscopic shots, X-rays, reflected light displays, animated films and advertisements.(12)



Figs 14-15 Laszlo Moholy-Nagy, *Lichtspiel: schwarz weiß grau* 1930. Filmstill [left] © Moholy-Nagy, Hattul; Oskar Schlemmer, *Hoop Dance* [Reifentanz], 1927/28 [right] Photo: Albert Braun

Schlemmer's Bauhaustänze reveal a stunning synchronicity with Moholy-Nagy's kinetic *dispositif*, suggesting that their visions are complementary in their emphasis on coalescence of sensory communication and sculptural gesture. Both artists, in their experiments with motion, light, space, and *Faktur* (Moholy-Nagy's term for surface aspects, the perceptible effects, of the performative treatment of a material), exceed a productivist constructivism concerned with industrial usage and a union of purpose and material. Both artists are pioneers of what is now called hybrid art, in a much expanded context of discourses and historical trajectories.

Schlemmer's *Hoop Dance* is sheer geometric-figural poetry in motion, the circles and suspended spirals perform to clicking and percussive tones while Moholy-Nagy's Light Space Modulator rotates to generate its own subtle tingling, crackling noises – Schlemmer's *mise en scène* in fact behaves much like Moholy-Nagy's film in 3D, almost as if the dance were an expanded cinematographic study of movement through objects – powerfully resonating with the foremost abstract motion projections from Marey to Richter, Eggeling, and Fischinger's space-light-art – audiovisual painting in time. Schlemmer's stage is an overall mutating and moving world, the suspended figurines slowly turning and twisting between and above the multilayered hoops. The spatial, organizational and structural armature of this work has significant conceptual ramifications for contemporary digital performance, dance, and installation art, I believe, and when I look at the transpositions of William Forsythe's choreography for *One Flat Thing, reproduced* to the animated recombinations in *Synchronous Objects*, for example the Generative Drawing Tool or the 3D Alignment Forms Object, I glimpse many relationships to Schlemmer's furnishing of design-in-motion and Moholy-Nagy's kinetic modulator. Noticeably, *One Flat Thing, reproduced* is performed on unusual spatial ground: twenty tables form the matrix of choreographic space and the topological grid for some of the “sculptural” data processing and vector graphics in *Synchronous Objects* (SO). SO presents collaborative research on organizational principles in Forsythe's choreography, conducted at Ohio State University's

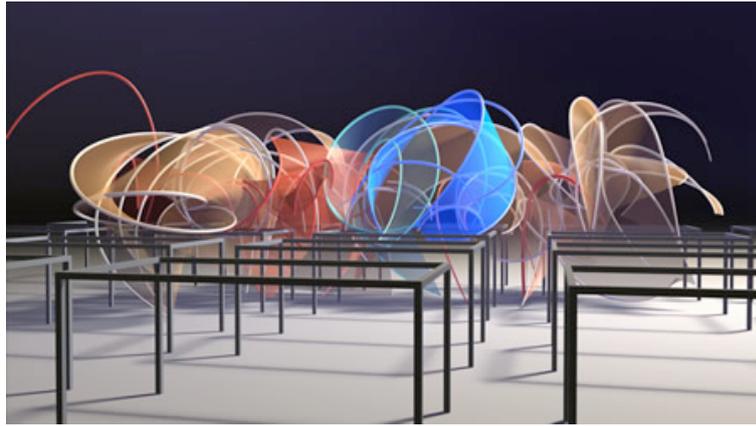


Fig. 16 3D Alignment Forms within *Synchronous Objects*, taking a sampling of dancers' alignments into three-dimensional space creating volumes between them to create new sculptural-spatial configurations. Video still from <http://synchronousobjects.osu.edu/>.

Advanced Computing Center for the Arts and Design – such multidisciplinary centers providing today's versions of a Bauhaus workshop. The researchers analyze and creatively redeploy spatial data from the dance, re-visualizing the kinetic *dispositif*; *SO* is also a series of re-mappings (delineations, in Schlemmer's sense) of the distributed flows of the dancers' movements, providing tools that allow the user to trace, re-imagine and re-draw spatio-temporal behaviors from the dance, experiencing on screen the dramaturgies I have tried to address here, the participatory "event-design" now associated with interactive installations but already anticipated in the Bauhaus parties and Schlemmer's spatial mobilizations. Forsythe's artistic and research interest in architectural notions of spatiality, ideas of measure (mathematics, algorithms) and choreography has been amply documented. (13) Still, it surprises that Forsythe, among other contemporary choreographers/directors, is often linked to the legacy of Laban or Balanchine, and the visual stage aesthetics of Robert Wilson, Robert Lepage or Romeo Castellucci, rather than to the early 20<sup>th</sup> century constructivists. Schlemmer's negligible historical impact can only be explained by the relative insignificance –within interdisciplinary discourses on art, media and performance – attributed to sculpture and (costume-)design. But only a few jump-cuts are needed in this film on modern motion to realize the critical value of wearable design – and Schlemmer's magical figurines – for repositioning the object of performance in new media culture.

#### Notes

(1) Cf. *Bauhaus: Art as Life*, exhibition catalogue (London: Koenig Books/Barbican Art Gallery, 2012), pp. 27ff.

(2) Oskar Schlemmer, "The Stage and the Bauhaus" (1926), in *Bauhaus: Art as Life*, p. 196.

(3) See Elizabeth Otto, "Designing Men," in Jeffrey Saletnik and Robin Schuldenfrei, eds., *Bauhaus Construct: Fashioning Identity, Discourse and Modernism* (London: Routledge, 2009), pp. 192-93.

(4) Cf. Schlemmer in Melissa Tringham, *The Theatre of the Bauhaus* (London: Routledge, 2011), p. 18. Tringham's thoughtful reconsideration of Schlemmer's significance inspired this essay. She also wrote the chapter on "bauhaus lighthouse" (pp. 200-06) for *Bauhaus: Art as Life*, emphasizing the *Gestaltung* of

space through light, which might put Schlemmer into interesting conceptual relationships with Adolphe Appia's innovations at Hellerau.

(5) Nicolas Salazar-Sutil has been creating interesting experiments with mathematics/dance as artistic director of C8 (The Configur8 Project), exploring symbolic languages (mathematics, computer language) in performance, and the use of new media and technology in digital performance. In 2010, for example, he participated in "Performing Topology" at Goldsmiths, investigating the use of concepts from the mathematical field of topology, such as transformations, boundaries, fields and continuities as they might be relevant for understanding performance space, embodiment and the sensation of changing space.

(6) Oskar Schlemmer, "Mensch und Kunstfigur," in W. Gropius/L. Moholy-Nagy, eds., *Die Bühne im Bauhaus* (München: Albert Langen, 1925), p. 17. The initial Bauhaus book was reissued, in translation, as *The Theater of the Bauhaus*, ed. Walter Gropius/Arthur S. Wensinger (Baltimore: Johns Hopkins Univ. Press, 1961 [1996]).

(7) Quoted in Trimmingham, *The Theatre of the Bauhaus*, p. 89.

(8) Wassily Kandinsky, *Über das Geistige in der Kunst*, München: R. Piper & Co. Verlag, 1912, p. 48.

(9) C. Raman Schlemmer, quoted in *Bauhaus: Art as Life*, p. 195.

(10) The repression of German romanticism, the gothic, and expressionism at the Bauhaus is a fascinating subject for another essay; one rarely finds commentary on Bauhaus performance in the context of early modern dance, yet not too far from Weimar, at the Hellerau Festspielhaus in Dresden, Émile Jaques-Dalcroze had conducted his eurhythmic music/dance and gymnastic workshop productions from which Mary Wigman's *Ausdruckstanz* emerged. There are subliminal resonances between Schlemmer's spatial action and Meyerhold's biomechanics performed on Liubov Popova's stage machine (a machine-like moving structure with platforms and whirling wheels); similarly, Lissitzky's drawings for an "electro-mechanical" staging of the futurist opera *Victory over the Sun* (published in the extraordinary 1923 Portfolio of lithographs) offer a constructivist vision contemporaneous with Schlemmer's ideas for a future "dynamic, tectonic, mechanical, automatic and electric stage" ("Mensch und Kunstfigur," p. 19).

(11) Cf. "The Mathematics of Dance" and "Man and Art Figure," his main contributions to the 1925 book *Die Bühne im Bauhaus/The Theatre of the Bauhaus*. Schlemmer thus anticipates Artaud's metaphysics-in-action, the complex poetry of tonalities, resonances, and animated hieroglyphics (Artaud calls them "unperverted pantomime," in reference to the oriental theatre he admired), yet his work is more strongly centered on the transformative power of the three-dimensional plastic form of the costumes or objects.

(12) Cf. *Bauhaus: Art as Life*, p. 258.

(13) See, for example, Stephen Turk, "Tables of Weights and Measures: Architecture and the *Synchronous Objects* Project," in Gabriele Klein and Sandra Noeth, eds., *Emerging Bodies: The Performance of Worldmaking in Dance and Choreography* (Bielefeld: transcript, 2011), pp. 195-206; Erin Manning, "Propositions for the Verge: William Forsythe's Choreographic Objects," *Inflexions: A Journal for Research Creation 2* (2009), available at [http://www.inflexions.org/n2\\_manninghtml.html](http://www.inflexions.org/n2_manninghtml.html).

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