Accademia di San Luca in Rome under the patronage of Pope Gregory XIII in 1577 (Hager & Munshower, 1984). The early years, however, were quite difficult. When the academy was first opened in 1593, a lack of rooms, curricula, and funds restricted teaching to Sundays and public holidays.

From the outset, it was clear that training at the Academy would necessarily remain unsatisfactory until lectures were accompanied by a second element, namely competitions (Bergdoll, 1989). Since the Renaissance, competition had played an important part in building. It contributed to the establishment of architecture as an independent profession which challenged architects to become creative artists. The development of artistic creativity was, of course, also the goal of academic training. Teachers gave the advanced students challenging assignments, such as designing churches, monuments, or palaces. These assignments introduced students to the demands of their profession and, at the same time, enabled them to apply, independently and creatively, the rules and principles of composition and construction that had been acquired in lectures and workshops. The Academy's initial competition took place in 1596, but it was not until 1702 that it was permanently incorporated into the schoolyear calendar.

The structure of the academic competitions corresponded directly to architectural competitions; in both cases there were assignments to be carried out, deadlines to be kept, and juries to convince. However, in contrast to real competitions for architectural commissions, the designs in academic competitions were purely hypothetical tasks. For this reason, they were called “progetti.” “The projects were intended to be exercises in imagination, since they were not intended to be built,” observed Egbert (1980, p. 11). It was at the Accademia di San Luca in Rome that the term “project” first appeared in an educational context (Marconi, Cipriani, & Valerini, 1974). However, this does not imply that the project method had emerged as a central teaching device, since the competitions organized by Accademia di San Luca were not viewed as an integral part of training. Participation was open to every young architect, regardless of whether he was a student at the Academy or not.

Patterned after the Italian model, the Académie Royale d’Architecture was founded in Paris in 1671 (e.g., Chafee, 1977; Egbert, 1980; Schöller, 1993). But the French architects did not simply replicate the Italian model. For instance, they altered the conditions of competition, limiting participation to registered students. The competitions also became more frequent. In addition to the annual “Prix de Rome” competition, a monthly “Prix d’Émulation” was also established. With the introduction of the Prix d’Émulation, training focused on learning by projects. Students had to complete several monthly “projets” to be awarded medals or gain recognition. These awards were necessary in order to progress to the master class and acquire the title of academic architect (Knoll, 1991a; Levine, 1982; Pérouse de Montclos, 1984). With the Prix d’Émulation of 1763, the evolution of the project idea into an acknowledged scholastic and teaching method was completed.
Learning by Projects in Manual Training and the Industrial Arts

Stillman H. Robinson, Professor of Mechanical Engineering at the Illinois Industrial University at Urbana, thought (around 1870) that theory and practice belonged together. A student must be able to think like a craftsman in order to become an engineer (Knoll, 1994a; Solberg, 1968). This view isolated Robinson from his colleagues in Paris, Karlsruhe, and Boston, where the "scientific" engineer was seen as the ideal. Students were required to learn how to apply the laws of science and technology, and be able to develop machines, apparatus, and turbines. To Robinson, this was insufficient; he required his students to carry out the "complete act of creation." This involved not only drafting their "project," but also actually constructing the building or machine on their own. (p. 267f).

Robinson observed that "in practice instruction consists mainly in the execution of projects, in which the student is required to construct machines, or parts thereof, of his own design and from his own working drawings" (Illinois Industrial University, 1872-73, p. 29). This "construction" requirement, Robinson wanted to achieve two purposes: enable students to become "practical" engineers and "democratic" citizens (i.e., citizens who believed in the equality of men and the dignity of labor).

Robinson's conception, however, had one clear disadvantage. It restricted the amount of time that remained for the students to study and conduct research. Therefore, the engineers sought an alternative approach. In 1876, this alternative came via the Russian display at the Centennial Exhibition in Philadelphia. The display also had a powerful influence on John D. Runkle, President of the Massachusetts Institute of Technology and Calvin M. Woodward, Dean of the O'Fallon Polytechnic Institute at Washington University. Runkle and Woodward proposed moving training in the handicrafts from college to the secondary school level and using the so-called "Russian system" as the medium of instruction. Woodward, in 1879, put this proposal into practice by founding the first Manual Training School in St. Louis (Bennett, 1937; Knoll, 1898, 1904; Runkle, 1876; Woodward, 1887).

At the Manual Training School, pupils worked successively in the carpentry shop, on the lathe, in the smithy, foundry, and machine shop. There, in accordance with the Russian system, students became acquainted with the art of handicrafts in two phases. First, by passing through a series of basic exercises, they learned the "alphabet" of tools and techniques. For example, in the machine shop they filed cubes, turned screws, and drilled cylinders. Second, at the end of each teaching unit and school year, they were given time to develop and carry out "projects" independently (Woodward, 1887). Woodward regarded the projects as "synthetic exercises." The projects were to give the students the knowledge and skills they needed to execute the project. Thus, the "instruction" did not precede the project, but was integrated into the "constructive" project work (pp. 267f.).

Thanks to Woodward's indefatigable efforts, the handwork approach rapidly gained credibility and support nationwide (Bennett, 1937; Cremin, 1961). A decade after the foundation of the Manual Training School, thousands of males and (since 1897) females at American high schools participated in instruction in carpentry and ironwork, cooking, and sewing. Training became so popular that, through the influence of kindergarten educators, it was also introduced into elementary schools. It was at this time that the Russian concept was heavily criticized (Henderson, 1894; Knoll, 1994). According to Dewey, the concept was "designed to progress systematically from elementary principles to practical applications, or, in Woodward's terms, from 'instruction' to 'construction.' At the end of the third year, the manual training course culminated in what was called, the "project for graduation." As was stated in the "Ordinance establishing the Manual Training School" of June 1870:

Before receiving a diploma of the school, each student must execute a project satisfactory to the faculty of the Polytechnic School. The project consists of the actual construction of a machine. The finished machine must be accompanied by a full set of drawing works according to which the machine is made, and the mold used for the castings. Both the drawings and molds had to be the work of the student. All projects remain the property of the school. (Washington University, 1880-81, p. 50) (cf. Ham 1888, pp.109f).

Like Dewey, Richards thought that "construction" and, consequently, project work should not be the final goal of the educational process. Rather, construction should be the starting point of manual training in the arts (Burton, 1920; Knoll, 1994). Assembling the new subject, manual training, in connection with "natural wholes" and "artistic exercises," dealing with artificial parts. As they developed an understanding of tasks as a whole, they would then be equipped to identify with their work, and recognize and solve the identified problems. In a gentle critique of Woodward, Richards (1901) observed that: "When we take up the problem of handwork in this spirit, we are going to recognize that a nice sequence of difficulties in the work may be of less importance than the question of motive or the significance of a project to the real interest of the pupil" (p. 342). Richards' concept of "natural and social learning" was put into practice at the Horace Mann School of Teachers' College. On the teacher's initiative, for instance, second grade pupils decided to carry out an Indian project (cf. Richards 1901). They read Longfellow's poem "Hiawatha," discussed the customs and rituals of the Indians, and visited the Museum of Natural History. Then they constructed tents, made costumes, and carved bows and arrows in order to live as Indians for a day. The pupils acquired the knowledge and skills they needed to execute the project. Thus, the "instruction" did not (as with Woodward) precede the project, but was integrated into the "constructive" project work (pp. 267f.).

Psychologizing the Project Method by Kilpatrick

The project method attracted more adherents as the years passed, but it triggered little attention beyond manual training and industrial arts until Rufus W. Stimson of the Massachusetts Board of Education began his campaign for the popularization of the "home project" in agriculture around 1900 (Slavin, 1988; Knoll, 1991b). According to Stimson, the "natural" project work began from the starting point of "natural wholes" and "artistic exercises," dealing with artificial parts. As they developed an understanding of tasks as a whole, they would then be equipped to identify with their work, and recognize and solve the identified problems. In a gentle critique of Woodward, Richards (1901) observed that: "When we take up the problem of handwork in this spirit, we are going to recognize that a nice sequence of difficulties in the work may be of less importance than the question of motive or the significance of a project to the real interest of the pupil" (p. 342). Richards' concept of "natural and social learning" was put into practice at the Horace Mann School of Teachers' College. On the teacher's initiative, for instance, second grade pupils decided to carry out an Indian project (cf. Richards 1901). They read Longfellow's poem "Hiawatha," discussed the customs and rituals of the Indians, and visited the Museum of Natural History. Then they constructed tents, made costumes, and carved bows and arrows in order to live as Indians for a day. The pupils acquired the knowledge and skills they needed to execute the project. Thus, the "instruction" did not (as with Woodward) precede the project, but was integrated into the "constructive" project work (pp. 267f.).

Kilpatrick based his project concept on Dewey's theory of experience (Cremin, 1961; Knoll, 1993a). Children were to acquire experience and knowledge by solving practical problems in social situations. It should be noted that Kilpatrick was heavily influenced by Edward L. Thorndike's psychology of learning, even more than by Dewey's theory of experience (Kilpatrick, 1918). According to Thorndike's "laws of learning," an action for which there existed an "inclination" procured "satisfaction" and was more likely to be repeated than an action that "annoyed" and took place under "compulsion." From this, Kilpatrick concluded that the "psychology of the child" was the crucial element in the learning process. Children had to be able to decide freely what they wanted to do; the belief was that their motivation and learning success would increase to the extent to which they pursued their own "purposes."

Using these insights, Kilpatrick (1925) defined the project as a "hearty purposeful act" (not as a "hearty planned act") as the German translation has it; Kilpatrick, 1918, p. 320; Kilpatrick, 1935, p. 182). "Purpose" presupposed freedom of action and could not be dictated. If, however, "the purpose dies and the teacher still requires the completion of what was begun, then it [the project] becomes a task." mere work and drudgery (Kilpatrick, 1925, p. 348). Thus, Kilpatrick established student motivation as the crucial feature of the project method. Whatever the child undertook, as long as it was done "purposefully," was a project. No aspect of valuable life was excluded. Kilpatrick (1918) drew up a typology of projects ranging from constructing a machine via solving a mathematical problem and learning French vocabulary, to watching a sunset and listening to a sonata of Beethoven. In contrast to his predecessors, Kilpatrick did not link the project to specific subjects and areas of learning such as manual training or constructive occupations; the project did not even require active doing and participating. Children who presented a play executed a project, as did those children sitting in the audience, heartily enjoying it. In Kilpatrick's view, projects had four phases: planning, purposeful, executing, and judging. The ideal progression was when all four phases were initiated and completed by the pupils and not by the teacher (Kilpatrick, 1925). Only when the pupils exercised "freedom of action" were they able to acquire independence, power of judgment, and the ability to act— the virtues that Kilpatrick believed were indispensable for the maintenance and further development of democracy.
Transplantation of the Project Idea Back to Europe

By the dawn of the 20th century, the United States had been firmly established as a world power. Her influence was noticeable not only in politics and trade, but also in education. Like Europe, America had become an important exporter of innovative and progressive educational ideas. The project method, principally in the broad version of Dewey and Kilpatrick, as it was repeatedly and wrongly said, was discussed in Canada, Argentina, Britain, Germany, India, and Australia (cf. Schäfer, 1988). (See Figure 1 for an overview of the number of publications on the project method in selected countries.)

Figure 1
Number of annual publications on the project method in selected countries and regions, 1951-1982.

From Gottfried Petri: Idee, Realität und Entwicklungs möglichkeiten des Projekterienens. Graz: Bundesministerium für Unterricht, Kunst und Sport, Zentrum für Schuleinsichten und Schülerentwicklung 1991, p. 271. Petri took the data of the bibliography from Ulrich Schäfer. The center of the discussion, however, was in Russia where, since the revolution of 1917, substantial effort had been invested in developing progressive alternatives to the bourgeois and capitalistic methods of teaching through lectures and books (Anweiler, 1978; Helmer, 1994). In the early 1920s, project work was introduced and promoted to Russian educators, primarily by Lenin's wife and colleague Nadezhda K. Krupskaya. Somewhat later (around 1930), it acquired eminent importance when Victor N. Sulgin, head of the Institute of Educational Research in Moscow, proclaimed his concept "withdrawing away of the school" and declared the "metaphor project" to be the one and only truly "Marxist" and "democratic" method of teaching (Holmes, 1959, p. 123). According to Sulgin, the project was the ideal approach to combining theoretical insights with revolutionary practice, and to accelerating the transition from capitalism to communism. In contrast to bourgeois schooling, teaching in the proletarian state extended beyond stringing together abstract subject matter. Rather, it consisted of an unbroken sequence of projects in which the pupils would acquire, by productive work, the knowledge with which they could spur on the political and economic development of the Soviet Union. Thus, fifth grade students were encouraged to go to factories and support workers in their fight to fulfill production and financing plans. This was accomplished by writing reports on the heroes of labor, demonstrating against idlers, and exhibiting workpieces and products of their own. Sulgin's proposals were initially discussed at specially-convened pan-Russian "project conferences" and then were formalized into a comprehensive national "project curricula" (Holmes, 1951, pp. 1371ff.).

However, the new curricula had just been passed when the Central Committee of the Communist Party of the Soviet Union intervened. In a resolution dated September 5, 1931, the highest decision-making body in the country condemned the "ill-considered craze for the project method" (Anweiler, 1978, p. 431), declaring that the project was not suited for teaching the knowledge and skills necessary to increase industrial production and strengthen communist consciousness. Indeed, there was considerable risk that, through the fusion of instruction and work, progress achieved in the field of general and scientific education in recent years would be lost. Dewey did not regard project work as the "only way out of educational confusion" (Dewey, 1931, p. 87). Rather, it was viewed as only one of many methods of teaching.

The criticism of Dewey and other educators had a dampening effect on the popularity of the project method. In the early 1930s, the term "project" was used less and less in its broad sense. Even Kilpatrick distanced himself from his own definition. In a letter to Abraham Flexner (dated January 25, 1930 and today housed in Special Collections at Mercer University), he admitted that he should not have connected his notion of the "hearty purposeful act" with the traditional project approach in 1918. "In the end (i.e., after 1927)," Kilpatrick wrote, "I decided I had made a mistake to marry my program to the term, and I stopped using the term as being provocative and ambiguous" (1950, p. 3). Indeed, Kilpatrick's self-critique makes the point and is self-explanatory. His project conception was ambiguous, since it disregarded the conventions of language and designated the subjective attitude of the student as an objective method of teaching. The project conception was provocative, since it neglected the traditions of the field and changed the project definition arbitrarily from responsible, constructive work to hearty, purposeful activity. In its original, narrow sense, the project has survived the years undamaged, and still exists today. Especially in science, agriculture, and technology education/industrial arts, American high school students have regularly completed projects that are judged by a jury and awarded prizes and certificates in a manner similar to the architectural competitions of the 19th and 18th centuries.

Dewey's Criticism and the Return to the Traditional Concept

In the early 1920s, Kilpatrick's conception of the project attracted attention. A growing number of teachers began to define the project more broadly and considered it to be a viable "general" method of teaching (Knoll, 1995a). However, this broad definition also faced strong resistance on several fronts-from "conservative" as well as "progressive" educators (Albert, 1927; Bode, 1927; Charters, 1923; Horn, 1922; Thayer, 1928; Washburne, 1928).

It is noteworthy that John Dewey, Kilpatrick's teacher and friend, also intervened in the discussion, criticizing his disciple's conception (Knoll, 1992, 1993d). Dewey's primary objection was the one-sided orientation on the child. In his view, pupils by themselves were incapable of planning projects and activities—they needed the aid of a teacher who would ensure the continuous process of learning and growth. To Dewey, the "project" was not (as it was to Kilpatrick) to be an "enterprise of the child," but rather a "common enterprise" of teacher and pupils (Dewey, 1938; Kilpatrick, 1927). Dewey was also critical of Kilpatrick's definition of the project as a "purposeful" activity, observing that "A genuine purpose starts with an impulse but differs from an original impulse and desire through its transformation into a plan and method of action" (1938, p. 43). It is only as the teacher convinced pupils to abandon spontaneous behavior and go through the "complete act of thinking"—from encountering a difficulty, via drafting a plan, to solving the problem—could they expand their experience and broaden their education (Dewey 1996). According to Dewey, all teaching methods were based on scientific thought and the method of educative experience. The project method, however, differed from the other approaches by requiring a kind of problem-solving which—like building a boat or making a kite—was designed to challenge and develop the constructive skills of the pupils (cf. Dewey, 1916; Dewey 1933). Contrary to Kilpatrick, Dewey emphasized the role of the teacher in providing guidance and direction to students.

It should be apparent that Dewey's (1931) idea of the project was not identical to Kilpatrick's. In fact, whenever Dewey discussed the project approach, he reverted (as did all leading American educators of the time) to the traditional concept and sharply rejected the definition that Kilpatrick propagated in his name. Unlike Kilpatrick, Dewey did not regard project work as the "only way out of educational confusion" (Dewey, 1931, p. 87). Rather, it was viewed as only one of many methods of teaching.

Kilpatrick's conception was actually illustrated through the "typhoid project," a world-renowned undertaking reported by Ellsworth Collings (1928; Collings, 1923, p. 271). Petri took the data of the bibliography from Ulrich Schäfer. The center of the discussion, however, was in Russia where, since the revolution of 1917, substantial effort had been invested in developing progressive alternatives to the bourgeois and capitalistic methods of teaching through lectures and books (Anweiler, 1978; Helmer, 1994). In the early 1920s, project work was introduced and promoted to Russian educators, primarily by Lenin's wife and colleague Nadezhda K. Krupskaya. Somewhat later (around 1930), it acquired eminent importance when Victor N. Sulgin, head of the Institute of Educational Research in Moscow, proclaimed his concept "withdrawing away of the school" and declared the "metaphor project" to be the one and only truly "Marxist" and "democratic" method of teaching (Holmes, 1959, p. 123). According to Sulgin, the project was the ideal approach to combining theoretical insights with revolutionary practice, and to accelerating the transition from capitalism to communism. In contrast to bourgeois schooling, teaching in the proletarian state extended beyond stringing together abstract subject matter. Rather, it consisted of an unbroken sequence of projects in which the pupils would acquire, by productive work, the knowledge with which they could spur on the political and economic development of the Soviet Union. Thus, fifth grade students were encouraged to go to factories and support workers in their fight to fulfill production and financing plans. This was accomplished by writing reports on the heroes of labor, demonstrating against idlers, and exhibiting workpieces and products of their own. Sulgin's proposals were initially discussed at specially-convened pan-Russian "project conferences" and then were formalized into a comprehensive national "project curricula" (Holmes, 1951, pp. 1371ff.).

However, the new curricula had just been passed when the Central Committee of the Communist Party of the Soviet Union intervened. In a resolution dated September 5, 1931, the highest decision-making body in the country condemned the "ill-considered craze for the project method" (Anweiler, 1978, p. 431), declaring that the project was not suited for teaching the knowledge and skills necessary to increase industrial production and strengthen communist consciousness. Indeed, there was considerable risk that, through the fusion of instruction and work, progress achieved in the field of general and scientific education in recent years would be jeopardized. This governmental resolution brought the discussion of the project method to an abrupt halt. Like progressive education as a whole, the project method was no longer on the agenda of the educational theory debate, either in the Soviet Union or in the countries that were to come under Soviet domination in Eastern Europe.
Renaissance of the Project Method in the 1960s

In contrast to its European predecessors and after the end of the Hitler dictatorship, Western Europe went through a phase of restoration. The ideas that had flourished during the period between the wars emerged once again. Progressive methods of teaching became viable options in discussions of school reform, on both historical and conceptual grounds (Frey 1996). In the late 1960s, the situation once again changed radically. Students not only protested against imperialism, capitalism, and authoritarianism, but also rebelled against structures of repression and domination which were perceived to be at the heart of academic institutions (personified in college and university administrators). Projects emerged as an alternative to traditional lecture and seminar formats. They were viewed as a form of learning through inquiry and were promoted for their practical relevance, interdisciplinarity, and social bearing. The project idea spread quickly from the universities to the schools, and from Western Europe throughout the world; but the center and focus of this third great wave of project discussion was and remained in Germany (cf. Schäfer, 1988).

The uniqueness of the German situation during the period between the wars was that her educational reformers were suspected of having saved the way for Fascism and National Socialism (Fishman & Martin, 1987, p. 166ff; Knoll, 1980, p. 27ff.). Their proposals for educational innovations were largely rejected in the 1960s and 1970s in favor of American progressive education movement concepts. With Dewey and Kilpatrick's project method, many of the new reformers believed that they had found the mechanism for the democratic and libertarian transformation of school and society. However, their appropriation of American models was only fragmentary. From Dewey's formula of "education for democracy" and Kilpatrick's slogan of "hearty purposeful activity," they concluded that all actions could be classified as projects as long as they satisfied the criteria of self-determination and self-satisfying needs. When the realities associated with imparting systematic knowledge and skills through independent project work emerged, the new reformers developed a more differentiated approach. On typical, routine school days, a reduced form of project-oriented teaching was used; but on special occasions (e.g., before public holidays and vacations), an ideal form of project teaching was employed. Implementing this ideal form consisted of special project days and project weeks during which the normal curriculum and the teacher's "planning monopoly" were suspended (Fishman & Martin, 1987; Knoll, 1997). During project weeks, the process was sometimes so open that virtually anything the pupils fancied, from making cider to staging peace demonstrations, qualified as a project. This project euphoria soon evaporated. Since the 1980s, much of the sharp disparity between the standard course of instruction and the project method has been resolved. Currently, substantial effort is being directed toward harmonizing project work with more conventional methods of teaching (Apel and Knoll, 1997).

Concluding Comments

The development of the term "project," within its broader conceptual and historical contexts, extends its customary interpretation. As a result, traditional historiography should be modified in the following three respects:

1. The "project" is a concept dating from the 17th and 18th centuries, belonging in the same category as the "experiment" of the natural scientist, the "case study" of the jurist, and the "sand-table exercise" of the staff officer. Like the experiment, the case study, and the sand-table exercise, the project method has its origin in the professionalization of an occupation. It was introduced in the curriculum so that students could learn at school to work independently and combine theory with practice. In contrast to experiment, case study, and sand-table exercises, the project method is not a matter of empirical, hermeneutical, or strategic studies, but of "construction" (i.e., designing a house, building a playground, or producing a machine).

2. The two basic models of the project method still used today were already developed in the 19th century. According to the older model (e.g., Woodward), students first learn, in a course of instruction, the skills and knowledge that they then apply independently and creatively in the practical project. According to the more recent model (e.g., Richards), the project is moved from the end of the unit to the center of teaching, in accordance with the fundamental idea of the new psychology that "natural wholes" must be the subject of learning if valuable interests and insights are to be developed. Here, the course of instruction does not precede the project, but is integrated into it.

3. At the beginning of the 20th century, a movement arose among American progressive educators (e.g., Kilpatrick) that attempted to replace (a) the traditional narrow definition of the project with a new, broad one, and (b) "constructive" activity with "purposeful" action as the crucial feature of the project method. This new definition was unable to gain ascendancy in the United States, but in other countries it was accepted as an innovation and a truly democratic achievement, with the paradoxical result that in Europe today the broad "American" concept predominates, while in America the narrow "European" approach plays the leading role.

The history of the project method makes it clear that the progressive education movement at the turn of the century represented only one, and not even the most important, international reform movement in modern times. Unlike Cremen (1961) and Rohrs (1977), for example, we cannot simply regard the 19th century as "prehistory" and the 20th century simply as "post history." We must, with Jurgen Oelkers (1996), see progressive education as part of a continuous, albeit differentiated, development springing from definite social and educational needs and reaching from the 17th century up to the present. Only from this broad perspective can industrial education like professional and vocational education as a whole be properly perceived as a fecund source of modern progressive educational practices (e.g., Knoll, 1993b). However, the history of the project method also illustrates how necessary it is to embed current thinking about educational reform within a historical context. Otherwise, as Cuban (1990) and Tyack and Cuban (1995) have correctly observed, reform moves from initiative to initiative without a clear understanding of why they dissipate and vanish. The results are frequently disappointing and meaningless. In the case of the project approach, a specific and indispensable method of teaching is turned by Kilpatrick and his followers into a general and blurred philosophy of education (Katz & Chard 1989).

References


Copyright information. PDF | On Jan 1, 1997, M. Knoll published The project method: Its vocational education origin and international development. Thus, the proposal described here is called Potentially Significant Teaching Unit, PSTU and results from research in national and international theoretical references which discuss pedagogical didactic methodologies and the specific roles of teachers and students in the teaching learning process. View. 2


Dewey, J., & Small, A. W. (1897). The project method is an educational enterprise in which children solve a practical problem over a period of several days or weeks. It may involve building a rocket, designing a playground, or publishing a class newspaper. The projects may be suggested by the teacher, but they are planned and executed as far as possible by the students themselves, individually or in groups. Many teachers—especially vocational and industrial arts educators—use a series of small-scale projects to help students develop continuously increasing competence in practical problem solving. 1995. “The Project Method: Its Origin and International Influence.” In Progressive Education across the Continents. A Handbook, ed. Volker Lenhart and Hermann Röhrs. PROJECT METHOD The project method is an educational enterprise in which children solve a practical problem over a period of several days or weeks. It may involve building a rocket, designing a playground, or publishing a class newspaper. The projects may be suggested by the teacher, but they are planned and executed as far as possible by the students themselves, individually or in groups. Many teachers—especially vocational and industrial arts educators—use a series of small-scale projects to help students develop continuously increasing competence in practical problem solving. See also: Kilpatrick, William H. bibliography. 1995. “The Project Method: Its Origin and International Influence.” In Progressive Education across the Continents. A Handbook, ed.