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Martelli, M.F. (2000). A Behavioral Protocol for Increasing Initiation, Decreasing Adynamia. Rehabilitation Psychology News, 27, 2, 12-13.

A Behavioral Protocol for Increasing Initiation, Decreasing Adynamia

By Mike Martelli, Ph.D

Concussion Care Centre of Virginia, Pinnacle Rehabilitation and Tree of Life 10120 West Broad Street, Suites G & H, Glenn Allen, Virginia 23060

Part 1: Task Analyses

Task Analysis involves breaking any task or chore or complex procedure into single, logically sequenced steps & recording the steps in a Checklist. The checklist allows checking off each step as it is completed. Task analyses always make task initiation, completion & follow through much easier. Performing a Task Analysis and generating a checklist can greatly improve ability to perform tasks in persons with limitations in memory, attention, energy, initiative, ability to sustain performance, organization, or almost any other difficulty.

Task Analysis Checklists are also extremely useful in minimizing fatigue by reducing the demand for, and energy consumed by reasoning and problem solving associated with planning, organizing & having to recall, make decisions & prioritize appropriate steps and sequences for a task. Task analyses are useful for both basic and complex behaviors. Most importantly, Task Analyses allow re-establishing the efficient routines that make up normal everyday human behavior and activity. When the procedures assisted by Task Analyses are repeated consistently, they eventually become automatic [habits] and become as natural as tying a shoe.

The ingredients for rebuilding these automatic habits are the <u>3 P's</u>: <u>Plan</u>, <u>Practice</u>, <u>Promotional</u> Attitude (see additional handout). The result is *rehabilitation*, or removing obstacles to independence, and systematic achievement of incremental goals in desirable life areas.

Case Study #1:

Rehabilitation Loss of Initiative - Drive Following Anterior Communicating Artery Stroke

Background:

AT is 52yo high school principle who sustained an ACoA aneurysm that produced three week coma, inability to return to work. Premorbidly, AT worked 50 - 55 hours per week, and engaged in activities with children, yardwork, weekend activities, etc., and was reported to have a slightly above average activity level. He was seen 1.5 yrs post, about the time his wife was trying almost a last effort before divorce, because he wouldn't get out of bed most mornings before early afternoon, would return to bed after getting out and completing only one or two poorly executed grooming or washing tasks, and wouldn't shave, do nails, get haircut, etc. Patient complained of primary, pervasive lack of energy ("I got no get up and go...it's too hard...just let me sit/lay here a while...").

Intervention:

Amantadine was initiated, with only the slightest noticeable improvement. Psychostimulants produced side effects greater than energy / initiative increase.

A behavioral plan was initiated that included designing a <u>Task Analysis</u> (see below), represented as a poster check list. AT was cued by his wife, family, to follow steps, and showed almost immediate improvement with structured task analysis. Within three weeks, he was able to

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complete the routine without fail and even without referring to the check list, although he did initially require some supervision with getting out of bed to start the routine. Eventually, he was able to set and respond consistently to the alarm and independently initate and complete the routine. Concurrently, a continency management plan was adopted, involving patient rating difficulty of tasks preferred by wife, wife rating desirability of these, patient rating desirability of a few hard to identify motivating appetitive interest rewards (only a few could be identified at first: foot massage, home made chocolate cream pie, sex, etc; over a couple months, a list of approx. 20 was identified, with increased activity being associated with identifying new motivating rewards), wife rating difficulty of providing rewards, with results compiled into a simple multiplication calculation (i.e., desirability X difficulty on 1-10 rating scale) that produced points for performed activities that could be exchanged for appetitive desires.

Outcome:

Data are represented in a proliferation in number of activities, increasing from an average of about 10 per week pre-program (with requirement of considerable effort and cueing) to an agreed quota of 50 per week, usually with minimal cueing, after implementation. Patient become semi-autonomous with activity completion, needing only minimal supervision from wife most of time (e.g., ocassional calls, reminders about chores that could be completed), and more intense supervision, cues, phone call reminders, at other times. Every change in routine (e.g., holidays) produced regression and return for a booster treatment session, but the behavioral management strategies were mostly adopted by his family so reduced need for formal intervention was noted. Eventually, his family devised a contingency wherein patient could 'prime' his own pump by increasing activities back to quota to avoid having to visit psychologist (1 hour drive, and extremely fatiguing and unpleasnt trip)

Task Analysis Sample

AT's Initiative(Automatic Habit/Energy) Retrainer

MORNING
☐ Wash Face
☐ Shave
☐ Apply medication to face if needed
☐ Brush Teeth
☐ Comb Hair
☐ Dress before "morning" nap
☐ Check finger nails & toe nails; trim when needed
☐ Check hair length and get a haircut as needed
☐ Shower and wash hair
☐ Perform an Activty/Chore (Choose from Menu)
☐ Check Schedule (e.g., M,W,F=Y; Tues=RedX)
☐ Check your appearance before leaving the house
AFTERNOON
☐ Fill Out Chart (Behavioral Activity Monitor & Points)
☐ Eat Lunch
☐ PowerRelaxationNap (PRN; Use Tape)
☐ Perform Activity or Chore (Choose from Menu Provided)
EVENING
☐ Eat Dinner
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☐ PRN (PowerRelaxationNap; Use Tape)					
☐ Engage in Evening Activity					
☐ 10:00pm: Complete Chart (Behavioral Activity Monitor & Tally Pts)					
☐ Shower (if not done in am; or, again?)					
☐ Watch TV News					
☐ Prep for Bed (PJ's, Brush Teeth, etc.)					
☐ BedTime					

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Part II: Behavioral Contingency Management Programs

PURPOSE: Increase the frequency of highly desirable but infrequently occurring behaviors by rewarding their performance with highly desired outcomes or rewards.

METHOD: Identify highly reinforcing events and highly desirable behaviors and design a formal behavioral contingency program which allows exchange of points earned by performing desirable behaviors for highly rewarding events, as follows:

- (1) Explain program rationale and Identify Reinforcers (motivating rewards)
 - Complete a list of reinforcers through a collaborative effort involving therapist and client/patient, as well as caretaker/family member/staff. Interview and survey homework which includes completion of the Motivating Rewards Survey, is usually necessary; for couples or family members, administration of the "Communication Enhancement Strategies: Pleasures/ Displeasures Survey" may be helpful.
 - Rate Reinforcers (from 1 to 10) according to:
 - Amount of perceived Enjoyment/Reward (usually completed by the client, patient, etc.)
 - Amount of perceived Provision Difficulty (usually completed by the caretaker, spouse, parent, staff, etc.)
- (2) Identify Desirable Behaviors (reward worthy desirable behaviors)
 - Complete a list of desirable behaviors or behaviors which are targeted for increase in frequency
 of occurrence, through collaboration between therapist and caretaker/family members/staff, as
 well as client/patient. Interview and Homework, including completion of structured lists, is
 usually necessary; for couples of family members, administration of the "Communication
 Enhancement Strategies: Pleasure/ Displeasure Survey" may be helpful Administration of the
 Neurobehavioral Symptom Checklist is recommended.
 - Rate Desirable Behaviors (from 1 to 10) according to:
 - Desirability, or how desirable they are (usually completed by the spouse, caretaker, staff, etc)
 - How Difficult they are to Provide (usually completed by the client, patient, etc.)
- (3) Compute Point Values
 - Reinforcer Values or Motivating Rewards, representing number of points required for purchase (formula: Reward Value = Enjoyability rating X Provision Difficulty rating)
 - Desirable Behavior reward points, representing number of points awarded (formula: Earned Points = Desirability rating X Provision Difficulty rating)
- (4) Complete Motivating Rewards and Rewardable/Desirable Behavior Goals Forms. Review, discuss and modify as deemed appropriate

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- (5) Provide a form for recording transactions regarding point accumulation for desirable behavior completion and exchanging earned points for motivating rewards (i.e., "The Bank"). Instruct participants in program function, and begin program
- (6) Assess results, solicit feedback and revise program to increase effectiveness (i.e., alteration of point values, addition of new rewards or desired behaviors, reinforc, etc.)
- (7) Reinforce progress, continued participation, perceptions of control, etc.

Case Study#2

Rehabilitating Efficiency in Everyday Routine Following Traumatic Brain Injury.

Background:

Brain Injury Rehab Professional who sustained a complicated mild TBI with 8 hr. PTA and right parietal bleed that spontaneously resolved. Despite returning to work within one week to regular job, part time, and increasing to full time in one month, it was noted, after almost two years post injury, with adequate adaptation at work and no reported change from preinjury level of performance, that many ordinary daily routines were significantly less efficient, more time consuming, etc., with subsequent reduction in time for personal life. For example, taking more time to dress in am meant getting to work later, having to stay later, returning home in greater fatigue, reducing time available for desirable activities, etc. A task analysis was employed to identify employed tasks and sequences employed prior to injury.

Outcome:

Upon implementation, reinstitution of approximate premorbid level of everyday efficiency, as gauged by self reported estimate of time required to dress in am, maintain a relatively clean house, engage in social activities, pursue dating, etc. The list was employed for several weeks before storing away and only reviewing once or twice in the following year. Follow up one year later revealed that most, albeit not all, efficiency habits had been maintained (e.g., house cleaning habits were less consistently followed).

Single Doctor Chores CheatList (summary)

BATHROOM

☐ Dust around the Mirror and Light and Window, including the tops of the light and mirrors and window
sills.
☐ Dust, with a damp cloth, around the windowsills, on the front of the blinds and the back (reverse sides
by adjusting slats up and down), and along the tile division.
Tub and Toilet (bi-weekly)
☐ Wipe down the bathtub walls, going to the ceiling.
☐ Use cleanser and a brush to quickly wipe grime in the tub, and scum stains on the wall.
☐ Use soapy brush to quickly wash and rinse the inside shower curtain.
☐ With a soapy disinfectant, clean the toilet top, seat, behind the seat, and under the seat, along the walls
to the floor
☐ Fold all tiles neatly on the tile racks
Floor (weekly)
☐ Sweep the floor, including behind the toilet.
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☐ Take out the rug and shake it off of the porch vigorously to remove dirt and dust.
☐ Remove and empty the garbage can.
☐ Mop the floor, using ammonia or Clorox and be sure to get behind the toilet.
☐ Use a rag to get the floor behind the toilet. Be sure to get in all the nooks and crannies along the edges
of the floor, near the tub, etc.
LIVING ROOM (bi-weekly)
☐ Dust Furniture, including all shelves
☐ Use broom/duster to dust along all baseboards, window sills, ceiling molding & fireplace mantle
☐ Sweep and Vacuum Under Rugs
☐ Sweep and Vacuum Floors
☐ Vacuum the couch, love seat, and chair
KITCHEN (weekly)
☐ Empty Trash Can
☐ Clean Top of Refrigerator and Microwave (Wet Soapy Cloth)
☐ Clean Inside Refrigerator and Microwave
☐ Wash Any Dishes and Clean Sink with Cleanser
☐ Clean Sink and Surrounding Countertop
☐ Sweep, and then Mop Floor
STUDY/OFFICE, DINING ROOM
BEDROOM
☐ Dust dresser tops, around doors and windows, and along baseboard and ceiling molding
LAUNDRY
☐ 9:00am Saturday: Take Clothes to Dry Cleaners before 10:am
☐ 5:00pm Saturday: Pick up clothes from Dry Cleaners and Arrange in closet
☐ 10:00am Sunday: Launder socks, underwear, bathroom towels, bed sheets, etc.
☐ 11:00am Sunday: Use Dryer & Fold & replace clothes when done. Hang Dry other clothes
☐ 11:20am Sunday: Steam mist to refresh any pants, shirts in need
☐ Sunday 9:00pm: Fold, hang, put away dry clothes
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BEHAVIORAL MANAGEMENT PROGRAMS: CONTINGENCY CONTRACT

(Rough Draft)

PURPOSE: Increase the frequency of highly desirable but infrequently occurring behaviors by rewarding their performance with highly desired outcomes or rewards.

METHOD: Identify highly reinforcing events and highly desirable behaviors and design a formal behavioral contingency program which allows exchange of points earned by performing desirable behaviors for highly rewarding events, as follows:

• (1) Explain program rationale and Identify Reinforcers (motivating rewards)

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- Complete a list of reinforcers through a collaborative effort involving therapist and client/patient, as well as caretaker/family member/staff. Interview and survey homework which includes completion of the Motivating Rewards Survey, is usually necessary; for couples or family members, administration of the "Communication Enhancement Strategies: Pleasures/ Displeasures Survey" may be helpful.
- Rate Reinforcers (from 1 to 10) according to:
 - Amount of perceived Enjoyment/Reward (usually completed by the client, patient, etc.)
 - Amount of perceived Provision Difficulty (usually completed by the caretaker, spouse, parent, staff, etc.)
- (2) Identify Desirable Behaviors (reward worthy desirable behaviors)
 - Complete a list of desirable behaviors or behaviors which are targeted for increase in frequency
 of occurrence, through collaboration between therapist and caretaker/family members/staff, as
 well as client/patient. Interview and Homework, including completion of structured lists, is
 usually necessary; for couples of family members, administration of the "Communication
 Enhancement Strategies: Pleasure/ Displeasure Survey" may be helpful Administration of the
 Neurobehavioral Symptom Checklist is recommended.
 - Rate Desirable Behaviors (from 1 to 10) according to:
 - Desirability, or how desirable they are (usually completed by the spouse, caretaker, staff, etc)
 - How Difficult they are to Provide (usually completed by the client, patient, etc.)
- (3) Compute Point Values
 - Reinforcer Values or Motivating Rewards, representing number of points required for purchase (formula: Reward Value = Enjoyability rating X Provision Difficulty rating)
 - Desirable Behavior reward points, representing number of points awarded (formula: Earned Points = Desirability rating X Provision Difficulty rating)
- (4) Complete Motivating Rewards and Rewardable/Desirable Behavior Goals Forms. Review, discuss and modify as deemed appropriate
- (5) Provide a form for recording transactions regarding point accumulation for desirable behavior completion and exchanging earned points for motivating rewards (i.e., "The Bank"). Instruct participants in program function, and begin program
- (6) Assess results, solicit feedback and revise program to increase effectiveness (i.e., alteration of point values, addition of new rewards or desired behaviors, reinforc, etc.)
- (7) Reinforce progress, continued participation, perceptions of control, etc.

The Bank

Date:	Deposit:	Withdrawal:	Balance:
•			

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<u>INSTRUCTIONS</u>: Please review with ____ the number of earned points at the end of each shift for each day, and add them as a Bank Deposit, signing off with staff initial. Anytime that Scott makes a points withdrawal, indicate the amount as a withdrawal, sign off with initial, withdraw it from the total amount deposited and include the sum under the "Balance" (again signing off)

<u>Instructions</u>: Please record all enjoyable stimuli or events (present, past, or potential)

MOTIVATING REWARDS SURVEY For		
1 EATING		
2 WATCHING TV/ VIDEOS		
3 TRAVELING/ VISITING/LEISURE, etc.		
	- 	
4 INTIMACY		
5 HOME ACTIVITIES, GAMES, etc		

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6	OTHER		
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<u>Instructions</u>: Please record all Desirable Behaviors (i.e., behaviors which you would like to see occur more frequently). Note: Desirable behaviors are often the opposite of (or incompatible with/ preferred instead of) behaviors which are displeasing or undesirable.

	REWARDABLE (Desirable) BEHAVIORAL GOALS SURVEY	
1		
2		

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3	:		
		-	
		-	
		-	
		-	
		-	
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<u>Instructions</u>: Please Rate (the Following from 0 (not at all) to 10 very much) According to How (Enjoyable / Difficult to Provide) they are:

MOTIVATING REWARDS For	Rating (0=Not at all; 10=Very Much)
1 EATING	
2 TV/ VIDEOS, Going to Movies, etc	
3 TRAVELING/ VISITING/LEISURE, etc.	
4 INTIMACY	

5	HOME ACTIVITIES, GAMES, etc	
6	OTHER	

 $\underline{Instructions} \colon Please\ Rate\ (\ the\ Following\ from\ 0\ (not\ at\ all)\ to\ 10\ very\ much)\ According\ to\ How\ (Enjoyable\ /\ Difficult\ to\ Provide)\ they\ are:$

	REWARDABLE BEHAVIORAL GOALS	Rating (0=Not at all; 10=Very Much)
1		

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Task Analysis (TA) Protocol

TA involves breaking any task, chore or complex procedure into single, logically sequenced steps & recording the steps in a Checklist. The list can be checked off as completed. TA's always make task initiation, completion & follow through much easier. Performing a TA and generating a checklist can greatly improve ability to perform tasks in persons with limitations in memory, attention, energy, initiative, ability to sustain performance, organization, etc.

Task Analysis Checklists are also extremely useful in minimizing fatigue by reducing energy demands required by memory, planning, organization, prioritizing and deciding the sequences for a task. Task analyses are useful for both basic and complex behaviors. Once completed, task analyses allow performance of tasks or routines without assistance from others. Most importantly, through repetition and relearning, they re-establishing the efficient routines that make up normal everyday human activity. When the procedures assisted by Task Analyses are repeated consistently, they eventually become automatic [habits] and become as automatic and effortless as tying a shoe.

The ingredients for rebuilding these automatic habits are the <u>3</u> <u>P's</u>: <u>Plan</u>, <u>Practice</u>, <u>Promotional Attitude</u>. The result is rehabilitation, or replacing obstacles with efficient habits that increase independence.

Several samples of different types of activities (tasks, cleaning routines, daily schedules) follow:

TA Samples: Single Tasks

Weekly Shopping Checklist

	MILK
П	PAPER PLATES/CUPS
	HAND LOTION
П	CHEESE
	NAPKINS
	CHAP STICK
	BUTTER
	PAPER TOWELS
	SHAMP00
	EGGS
	PLASTIC WRAP
	AFTER SHAVE
	FRUIT
	TRASH BAGS

'Making A Bed' Cheatlist	
☐ 1. Strip sheets, blankets and pillow cases ☐ 2. Put blankets and pillows on table ☐ 3. Take break ☐ 4. Get sheets and pillow cases from closet doing with Mom:	At This time
5. Put on fitted sheet 6. Put on top sheet, evening it out	
7. Put on blankets and tuck in corners 8. Put pillow cases on pillow	
9. Put comforter on bed	

Vacuum Cleaning Task Analysis

	_ canister _ handle _floor brush _hand brush, _crevice
	2. Unwind Power cord
	3. Decide task
	carpets
	wood/vinyl floors
	hand dusting
	d. For Carpets
	attach power handle
	adjust carpet level on canister
	turn on power
	vacuum first in main traffic paths and then to the sides
	turn off power 5. For Hard Floors
	attach long handle brush
ζ	turn on power
	vacuum from the center outward
	turn off power
	removee handle
	clean brush head with vacuum power
	6. For Hand Dusting attach brush head to hand grip
	turn on power
	carefully dust all surfaces
	turn off power
	remove brush and clean it with vacuum handle
	7. Change Dust Bag
	when red light on canister comes on, or check monthly
	when bag supply is low, purchase more at Sears. Bring code# to store.
	open canister, carefully pull bag off attachment.
	place dirty bag carefully into the trash
	put new bag following reverse procedure
	8. After Cleaning
	recoil power cord into canister
	store all parts in the closet
	store all parts in the closet
	store all parts in the closet TA Sample: Daily Habits & Routines
	TA Sample: Daily Habits & Routines AT's Initiative/Energy Retrainer
	TA Sample: Daily Habits & Routines AT's Initiative/Energy Retrainer MORNING
	TA Sample: Daily Habits & Routines AT's Initiative/Energy Retrainer MORNING Wash Face
	TA Sample: Daily Habits & Routines AT's Initiative/Energy Retrainer MORNING Wash Face Shave
	TA Sample: Daily Habits & Routines AT's Initiative/Energy Retrainer MORNING Wash Face
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	AT's Initiative/Energy Retrainer MORNING Wash Face Shave Apply medication to face if needed Brush Teeth Comb Hair Dress before "morning" nap Check finger nails & toe nails; trim when needed Check hair length and get a haircut as needed Shower and wash hair Perform an Activity/Chore (Choose from Menu) Check Schedule (e.g., M,W,F=Y; Tues=RedX) Check your appearance before leaving the house AFTERNOON Fill Out Chart (Behavioral Activity Monitor & Points) Eat Lunch PowerRelaxationNap (PRN; Use Tape) Perform Activity or Chore (Choose from Menu) EVENING Eat Dinner PRN (PowerRelaxationNap; Use Tape) Engage in Evening Activity
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	AT's Initiative/Energy Retrainer MORNING Wash Face Shave Apply medication to face if needed Brush Teeth Comb Hair Dress before "morning" nap Check finger nails & toe nails; trim when needed Check hair length and get a haircut as needed Shower and wash hair Perform an Activity/Chore (Choose from Menu) Check Schedule (e.g., M,W,F=Y; Tues=RedX) Check your appearance before leaving the house AFTERNOON Fill Out Chart (Behavioral Activity Monitor & Points) Eat Lunch PowerRelaxationNap (PRN; Use Tape) Perform Activity or Chore (Choose from Menu) EVENING Eat Dinner PRN (PowerRelaxationNap; Use Tape) Engage in Evening Activity 10:00pm: Complete Chart (Behavioral Activity Monitor & Tally Pts) Shower (if not done in am; or, again?) Watch TV News
	AT's Initiative/Energy Retrainer MORNING Wash Face Shave Apply medication to face if needed Brush Teeth Comb Hair Dress before "morning" nap Check finger nails & toe nails; trim when needed Check hair length and get a haircut as needed Shower and wash hair Perform an Activity/Chore (Choose from Menu) Check Schedule (e.g., M,W,F=Y; Tues=RedX) Check your appearance before leaving the house AFTERNOON Fill Out Chart (Behavioral Activity Monitor & Points) Eat Lunch PowerRelaxationNap (PRN; Use Tape) Perform Activity or Chore (Choose from Menu) EVENING Eat Dinner PRN (PowerRelaxationNap; Use Tape) Engage in Evening Activity 10:00pm: Complete Chart (Behavioral Activity Monitor & Tally Pts) Shower (if not done in am; or, again?) Watch TV News Prep for Bed (PJ's, Brush Teeth, etc.)

TA Samples: Cleaning Routines	Wash Any Dishes and Clean Sink with Cleanser			
TB's Bachelor Pad Cheat Sheet	☐ Clean Sink and Surrounding Countertop☐ Sweep, and then Mop Floor			
♣ I CLEAN ADADTMENT.	STUDY/OFFICE TO THE STUDY OF S			
❖ I. CLEAN APARTMENT: A. KITCHEN:	ÜNING ROOM			
CLEAN COUNTERTOPS DAILY				
 ☐ SWEEP FLOOR DAILY ☐ ORGANIZE CABINETS &WIPE OFF ICE BOX 	BEDROOM ☐ Dust dresser tops, around doors and windows, and along			
EVERY WEDS MOP FLOOR & WIPE WALLS	baseboard and ceiling molding			
B. BEDROOM	LAUNDRY			
	9:00am Saturday: Take Clothes to Dry Cleaners before 10:am 5:00pm Saturday: Pick up clothes from Dry Cleaners and Arrange			
SWEEP AND VACUMN FLOORS WHEN APPROPRIATE OR PRN	in closet			
☐ ORGANIZE COMPUTER AREA☐ EMPTY CAT BOX DAILY	☐ 10:00am Sunday: Launder socks, underwear, bathroom towels, bed sheets, etc.			
MOP FLOORS WHEN APPROPRIATE PRN	☐ 11:00am Sunday: Use Dryer & Fold & replace clothes when done.			
C: DEN: SWEEP FLOOR	Hang Dry other clothes			
☐ VACUUM DAILY	 ☐ 11:20am Sunday: Steam mist to refresh any pants, shirts in need ☐ Sunday 9:00pm: Fold, hang, put away dry clothes 			
DUST DAILY				
☐ STRAIGHTEN UP DAILY ☐ VACUUM UP	TA Samples: Daily Activity Trainers			
MOP	DH's <u>Daily Plan</u> Checklist			
D. LIVING ROOM	MORNING			
☐ DUST DAILY☐ STRAIGHTEN UP DAILY	☐ Wake 6:00 AM to the Alarm Clock☐ Take Medication			
SWEEP DAILY	Make Bed			
☐ VACUUM ONCE A WEEK☐ MOP ONCE A WEEK	☐ Shower☐ Get Dressed			
USE A CHECKLIST TO ENSURE DOING ALL	Comb Hair			
2) SET A CLEANING SCHEDULE: A DAILY DUTIES DUST SWEED STRAIGHTEN HID FACIL BOOM	Make and eat breakfast			
☐ A: DAILY DUTIES DUST, SWEEP, STRAIGHTEN UP EACH ROOM ☐ B: EVERY WED MOP ALL ROOMS AFTER A IS COMPLETE	 ☐ Clear, rinse, stack breakfast dishes (for pm wash) ☐ Wipe counter, table stovetop if needed 			
-	Feed animals			
Single Doctor Chores CheatList	☐ Brush teeth☐ Gather items to take for the day			
	☐ Leave house at 7:00; go to Grandma's			
BATHROOM ☐ Dust around the Mirror and Light and Window, including the tops	REHAB CENTER Arrive between 7:30-8:00Am by van			
of the light and mirrors and window sills.	Follow Morning Schedule (In Rehab SchedBook)			
Dust, with a damp cloth, around the windowsills, on the front of	Lunch at 11:30, Take medication			
the blinds and the back (reverse sides by adjusting slats up and down), and along the tile division.	☐ Follow Afternoon schedule☐ Leave for Grandma's between 3:30-4:00			
Tub_and Toilet	LATE AFTERNOON			
 Wipe down the bathtub walls, going to the ceiling. Use cleanser and a brush to quickly wipe grime in the tub, and 	☐ Dinner at Grandma's & take medication☐ Home between 6:00-7:00PM			
scum stains on the wall.	Get mail, read & sort; put bills on microwave			
☐ Use soapy brush to quickly wash and rinse the inside shower	EVENING: PREPARE FOR THE NEXT DAY			
curtain. With a soapy disinfectant, clean the toilet top, seat, behind the	Laundry if needed (clothes, sheets,bath/kit towels) separate colors and whites			
seat, and under the seat, along the walls to the floor	set water level			
Floor				
Sweep the floor, including behind the toilet.	turn on			
☐ Take out the rug and shake it off of the porch vigorously to	put clothes in dryer - set timer for 45min			
remove dirt and dust. Remove and empty the garbage can.	☐ Listen for Buzzer - fold when dry ☐ PUT CLOTHES AWAY: Drawers/Closets			
☐ Mop the floor, using ammonia or Clorox and be sure to get	Kitchen			
behind the toilet. Use a rag to get the floor behind the toilet. Be sure to get in	 wash dishes wipe off countertops, stovetop;			
all the nooks and crannies along the edges of the floor, near the	rinse out sink			
tub, etc.	sweep floor; mop if needed			
LIVING ROOM Dust Furniture, including all shelves	 ☐ Change or empty cat litter if needed ☐ Vacuum Carpet/Rugs if needed 			
☐ Use broom/duster to dust along all baseboards, window sills,	☐ Dust Furniture if needed			
ceiling molding & fireplace mantle Sweep and Vacuum Under Rugs	Bathroom if needed clean sink, tub, countertop			
Sweep and Vacuum Floors	put toilet cleaner in toilet			
☐ Vacuum the couch, love seat, and chair KITCHEN	dean floor, mirror			
Empty Trash Can	wash toilet inside and out			
	change towels, mat. washcloths			
☐ Clean Top of Refrigerator and Microwave (Wet Soapy Cloth)☐ Clean Inside Refrigerator and Microwave	 change towels, mat, washcloths Check off things needed on list; write out list when going shopping -Keep list in kitchen drawer 			

☐ Pick & lay out clothes to wear for the next day	RELAX/FREE TIME
Relax/Free Time	PREPARE FOR BED
	BRUSH TEETH
	WASH FACE
Prepare for Bed	SHAVE
Floss/Brush Teeth	PUT AWAY CLOTHES (in hamper or drawer)
☐ Wash Face	PUT ON SWEATS
Shave	SET ALARM FOR 5:30 AM
Put away clothes (in hamper or drawer/closet)	L's Automatic Habit Retrainer
Set Alarm for 6:00AM	MORNING
	Get up When Awakened
DG's Daily Checklist	Take Morning Medications, with Water
MORNING	Go to Bathroom
WAKE 5:30 AM TO THE ALARM CLOCK	Wash Face
	Go to Kitchen
TAKE A SHOWER-Wash and condition hair	=
SHAVE PUT COLOGNE ON	☐ Drink Coffee and
	Eat Breakfast
COMB HAIR	Go back to Bathroom and Brush Teeth
PUT DEODORANT ON	☐ Go to Bedroom and
BRUSH TEETH	Remove Nightie
GET DRESSED	Put on Panties & Bra
MAKE BED	Look on Bed and Put on Clothes that have Been Laid out
AT 6:00 AM TAKE MEDICATION	Put Top onPut Bottom onPut Socks onPut
MAKE AND EAT BREAKFAST	Shoes on
CLEAR, RINSE, STACK BREAKFAST DISHES TO PREPARE FOR PM	Get Hairbrush and Brush Hair (with help)
WASHING	Finish any Remaining Milk or Coffee
WIPE COUNTER, TABLE, STOVE TOP IF NEEDED	Get Memory Book
BRUSH TEETH	Check for Pen - get one from kitchen table if needed
GATHER ITEMS TO TAKE FOR DAY - including medication	Go To DayCenter
AT 7:00 AM LEAVE HOUSE &GO TO PICK-UP POINT FOR	Take Memory Logbook and Pen
SHELTERING ARMS	Go out Front Door and Go To Car
LOCK DOOR	
REHAB CENTER	☐ Open Car Passenger Door☐ Get in Car
-	=
ARRIVE 8:00-8:30 AM BY THE VAN	Shut Car Door
FOLLOW MORNING SCHEDULE	Leave for DayCenter
LUNCH AT 11:30, TAKE MEDICATION	Arrive at DayCenter
FOLLOW AFTERNOON SCHEDULE	Go to Activity Board
LEAVE BETWEEN 3:30-4:00 PM TO GO TO THE PICK-UP POINT	See Daily Scheduled Events
LATE AFTERNOON	Participate in Activities
TAKE MEDICATION AT 6:00 PM	☐ Write down in log book each activity
GET MAIL, READ & SORT, PUT BILLS IN APPT BOOK TO GIVE TO	LUNCHTIME
MY SEC.	☐ Eat Lunch at Lunchtime
BUSINESS RELATED ACTIVITIES	☐ Take Medication with Lunch
CHECK FOR MESSAGES	Participate in Afternoon Activities
RETURN CALLS	Write down in log book each activity
MAKE DINNER	Leave DayCenter to Return Home
EVENING: PREPARE FOR THE NEXT DAY	EVENING
KITCHEN	Listen to Music Tapes
wash dishes	
	Go to Mom's Bedroom and Get Music Tapes from Table Return to Rec Room
wipe off countertops, stovetop	
rinse out sink	Choose and Play a Tape
sweep floor, mop if needed	When Finished Return Tapes to Mom's Bedroom Table
CHANGE /EMPTY TRASH CAN - If Needed	Dinner Time
LAUNDRY IF NEEDED (CLOTHES, SHEETS BATHROOM& KITCHEN	Go To Kitchen Eat Dinner
TOWELS)	Work on Memory Book and Complete for Day
separate colors and whites	BEDTIME
set water level put soap in	
put clothes in turn on	□ Go To Bathroom
put clothes in dryer	☐ Shower
fold when dry '	☐ Take Clothes Off
PUT AWAY CLOTHES: DRAWERS/ CLOSET	Turn Water On Get in Shower
VACUUM CARPET/RUGS IF NEEDED	Pick up Soap
DUST FURNITURE IF NEEDED	Put Soap on Scrubber
BATHROOM IF NEEDED	Wash Self with Scrubber
clean sink, tub, countertop	Wash Soap Off
put toilet cleaner in toilet	Wet Hair Thoroughly
put tolet cleaner in tollet clean floor	Put Shampoo On
wash toilet inside and out	Make Sure There is Plenty of Shampoo
change towels, mat, washcloths	Shampoo Hair Thoroughly
WATER PLANTS ON FRIDAY IF SOIL DRY	Rise Hair Thoroughly
CHECK OFF THINGS NEEDED ON LISTS, WRITE OUT LIST WHEN	Shut Water Off
GOING SHOPPING - KEEP LIST ON KITCHEN COUNTER	Get TowelDry Off
PICK AND LAY OUT CLOTHES TO WEAR FOR NEXT DAY	Get out of Shower
GATHER AND ORGANIZE ITEMS TO BRING FOR NEXT DAY	Put on Nightie

Put on Face Lotion and Rinse			Take Clothes Upstairs (with help)
☐ Brush Teeth☐ Go To Bedroom		ш	Put Clothes in Drawer (with help
Get HairDryer from Bed			
Plug in and Turn on			
☐ Take Evening Medication☐ Floss Teeth			
Set Alarm Clock for 7:30			
□ Go To Bed Kevin's Daily Task Init	iatives		
_	iacives		
MORNING 6:00am - Rise to Alarm			
Go To Bathroom - Toilet and Wash Hand	ds		
Prepare Breakfast			
☐ 6:30am - Eat ☐ Put Dishes in Sink and Clean Counter			
7:00am - Dress			
Brush Teeth			
☐ Brush Hair ☐ Pack Book bag - Lunch Tickets, Keys, Sc	hadula		
8:00am, Get Ready to Catch Bus	iicuuic		
CIVITAN			
8 :30 - Bathroom - Toilet, Wash Hands 9:00 - Check Productivity			
10:30 - Check Productivity			
12:00 - Bathroom - Toilet, Wash Hands			
☐ 12:30 - Eat Lunch ☐ 1:00 - Clean Up			
2:00 - Bathroom - Toilet, Wash Hands			
2:30 - Break			
3:00 - Check Productivity 4:00 - Get Ready for Bus			
EVENING			
4:30 - Bathroom - Toilet, Wash Hands			
4:45 - Prepare Dinner 5:00 - Eat Dinner			
5:30 - Clean Table			
Prepare Lunch for Next Day			
☐ Clean Dishes in Sink☐ Clean Counter			
Bathroom - Shower and Clean Tub			
Dress	D / D' - Cl -l - '		
Pick up Bedroom - Put Clean Clothes in Basket	prawer/ pirty clothes in		
Make Bed			
Free Time	and Doub Task O CCT		
9:30 - Prepare for Bed - Toilet, Wash H	ands, brush leeth & 3E1		
☐ 10:00 - In Bed - Sleep			
Vovinto Special Dutice			
Kevin's Special Duties Automatic Habit/Energy/Initiative			
-			
ONCE PER WEEK: DAY/Time:			
_			
Change Bed			
☐ Vacuum Floor ☐ Dust			
Wash Kitchen Floor			
Wash Bathroom Floor			
□ Scrub Bath Tub □ Scrub Bathroom Sink			
Scrub Kitchen Sink			
THREE WASH LOADS PER WEEK			
DAYS/Time:			
Gather Clothes Take to Basement			
Sort Clothes			
Load Washer and Start			
 Load Dryer Fold Clothes (with help)			
\ Γ/			

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and unpleasant trip).

□ Wash Face

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A Behavioral Protocol for Increasing Initiation and Activity

Michael F. Martelli, Ph.D Concussion Care Centre of Virginia, Pinnacle Rehabilitation and Tree of Life Glen Allen, Virginia

Task Analysis involves breaking any task or chore or complex procedure into single, logically sequenced steps and recording the steps in a Checklist. The checklist allows checking off each step as it is completed. Task analyses always make task initiation, completion & follow through much easier. Performing a Task Analysis and generating a checklist can greatly improve ability to perform tasks in persons with limitations in memory, attention, energy, initiative, ability to sustain performance, organization, or almost any other difficulty.

Task Analysis Checklists are also extremely useful in minimizing fatigue by reducing the demand for, and energy consumed by reasoning and problem solving associated with planning, organizing and having to recall, make decisions and prioritize appropriate steps and sequences for a task. Task analyses are useful for both basic and complex behaviors. Most importantly, Task Analyses allow reestablishing the efficient routines that make up normal everyday human behavior and activity. When the procedures assisted by Task Analyses are repeated consistently, they eventually become automatic habits & become as natural as tying a shoe.

The utility of Task Analyses was discovered very early in the career of the author, when on an inpatient rehabilitation unit, he witnessed incredible struggles between therapists and patients with fatigue and initiation difficulties. What had taken weeks and months of rehabilitation only to produce unsuccessful and negative interactions for persons with MS, anterior communicating artery aneurysm bursts, and other disorders where fatigue and initiation are cardinal features. was noted to be reduced to days given adoption of simple task analytic procedures.

The ingredients for rebuilding these automatic habits are the 3 P's: Plan, Practice, Promotional Attitude (see http://go.to/MFMartelliPhD for relevant readings). The result is rehabilitation, or removing of obstacles to independence and systematic achievement of incremental goals in desirable life areas.

Case Study #1: Rehabilitating Loss of Initiative Following Anterior Communicating Artery Stroke

Background: AT, 52 yo high school principal who sustained an ACoA aneurysm that produced three week coma, inability to return to work. Premorbidly, AT worked 50 - 55 hours per week, and engaged in activities with children, yard work, weekend activities, etc., as was reported to have a slightly above average activity level. Seen 1.5 yrs post, about the time his wife was trying last effort before divorce, because he wouldn't get out of bed most mornings before early before divorce, because he wouldn't get out of bed most mornings before early afternoon, would return to bed after getting out after completing only one or two poorly executed grooming or washing tasks, wouldn't shave, do nails, get haircut, etc. AT complained of primary, pervasive lack of energy ("I got no get up and go...it's too hard...just let me sit/lay here a while..."). Intervention: Amantadine was initiated, with only the slightest noticeable improvement. Psychostimulants produced side effects greater than energy/initiative increase. A behavioral pian included designing a Task Analysis (see below), represented as a poster check list (attached below). AT was cued by his wife, family, to follow steps, and showed immediate improvement with structured task analysis, and within three weeks, was able to complete the routine without fail, without referring to the check list, but initially did require some supervision with getting out of bed to start routine. Eventually, he was able to respond consistently to atarm and independently initiate and complete routine. Concurrently, a contingency management plan (see below) complete routine. Concurrently, a contingency management plan (see below) was adopted, involving AT rating difficulty of tasks preferred by wife, wife rating desirability of these, AT rating desirability of a few hard to identify motivating appetitive interest rewards (only a few could be identified at first; foot massage, home made chocolate cream pie, sex, etc; over a couple months, a list of approximately 20 was identified, with increased activity being associated with identifying new motivating rewards), wile rating difficulty of providing rewards, with results compiled into a simple multiplication calculation (i.e., desirability X difficulty on 1-10 rating scale) that produced points for performed activities that

could be exchanged for appetitive desires. Outcome: Data are represented in proliferation in # of activities, increasing from average of about 10 per week pre-program (with requirement of considerable effort and cueing) to agreed quota of 50 per week, usually with minimal cueing, after implementation. AT became semi-autonomous with activity completion, needing minimal supervision from wife most of time (e.g., occasional calis, reminders about chores that could be completed), and more intense supervision, cues, phone call reminders, at other times. Every change in routine (e.g., holidays) produced regression and return for booster session, but the behavioral management strategies were mostly adopted by family, so reduced need for formal intervention was noted. Eventually, family devised contingency wherein patient could prime his own pump somewhat by increasing activities back to quota to avoid having to visit psychologist (1 hour drive, and extremely fatiguing

Task Analysis Sample

AT's initiative(Automatic Habit/Energy) Retrainer MORNING

CI Strave
☐ Apply medication to face if needed
☐ Brush Teeth
☐ Comb Hair Dress before "morning" nap
☐ Check finger nails & toe nails; trim when needed
☐ Check hair length and get a haircut as needed
☐ Shower and wash hair
☐ Perform an Activity/Chore (Choose from Menu)
☐ Check Schedule (e.g., M,W,F=Y; Tues=Red X)
☐ Check your appearance before leaving the house
AFTERNOON
☐ Fill Out Chart (Behavioral Activity Monitor & Points)
□ Eat Lunch
Power Relaxation Nap (PRN; Use Tape)
☐ Perform Activity or Chore (Choose from Menu Provided)
EVENING
☐ Eat Dinner
PRN (Power Relaxation Nap; Use Tape)
☐ Engage in Evening Activity
☐ 10:00 pm: Complete Chart (Activity Monitor & Taily Points)
☐ Shower (if not done in am; or, again?)
☐ Watch TV News
Prep for Bed (PJ's, Brush Teeth, etc.)
□ Bed Time

Behavioral Contingency Management Programs

PURPOSE: Increase the frequency of highly desirable but infrequently occurring behaviors by rewarding their performance with highly desired outcomes or rewards.

METHOD: Identify highly reinforcing events and highly desirable behaviors and design a formal behavioral contingency program which allows exchange of points earned by performing desirable behaviors for highly rewarding events, as follows:

(1) Explain program rationale and Identify Reinforcers (motivating

Complete a list of reinforcers through a collaborative effort involving therapist and client/patient, as well as caretaker/family member/staff. Interview and survey homework which includes completion of the Motivating Rewards Survey, is usually necessary; for couples or family members, administration of the "Communication Enhancement Strategies: Pleasures/Displeasures Survey" may be helpful. Rate Reinforcers (from 1 to 10) according to: Amount of perceived Enjoyment/Reward (usually completed by the client, patient, etc.), Amount of perceived Provision Difficulty (usually completed by the caretaker, spouse, parent, staff, etc.)

(2) Identify Desirable Behaviors (reward worthy desirable behaviors) Complete a list of desirable behaviors or behaviors which are targeted for increase in frequency of occurrence, through collaboration between therapist and caretaker/family members/staff, as well as client/patient. Interview and Homework, including completion of structured lists, is usually necessary; for couples of family members, administration of the "Communication Enhancement Strategies: Pleasure/ Displeasure Survey" may be helpful Administration of the Neurobehavioral Symptom Checklist is recommended.

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Rate: Desirable Behaviors (from 1 to 10) according to: Desirability, or how desirable they are (usually completed by the spouse, caretaker, staff, etc), How Difficult they are to Provide (usually completed by the client, patient,

(3) Compute Point Values Reinforcer Values or Motivating Rewards, representing number of points required for purchase (formula: Reward Value = Enjoyability rating X Provision Difficulty rating), Desirable Behavior reward points, representing number of points awarded (formula: Earned Points = Desirability rating X Provision Difficulty rating)

(4) Complete Motivating Rewards and Rewardable/Desirable Behavior Goals Forms. Review, discuss and modify as deemed

(5) Provide a form for recording transactions regarding point accumulation for desirable behavior completion and exchanging earned points for motivating rewards (i.e., "The Bank"), instruct participants in program function, and begin program

(6) Assess results, solicit feedback and revise program to increase effectiveness (i.e., alteration of point values, addition of new

rewards or desired behaviors, reinforc, etc.)

(7) Reinforce progress, continued participation, perceptions of control,

Case Study #2: Rehabilitating Efficiency in Everyday Routine Following Mild Traumatic Brain Injury (TBI)

Background: Brain Injury Rehab Professional who sustained a complicated mild TBI with 8 hr. PTA and right parietal bleed that spontaneously resolved. Despite returning to work within one week to regular job, part time, and increasing to full time in one month, it was noted, after almost two years post injury, with adequate adaptation at work and no reported change from preinjury level of performance, that many ordinary daily routines were significantly less efficient, more time consuming, etc., with subsequent reduction in time for personal life. For example, taking more time to dress in the morning meant getting to work later, having to stay later, returning home in greater fatigue, reducing available time for desirable activities, and so on. A task analysis was amplement to identify tasks desirable activities, and so on. A task analysis was employed to identify tasks and sequences employed prior to injury.

Outcome: Upon implementation, reinstitution of approximate premorbid level of

everyday efficiency was obtained, as gauged by self reported estimate of time required to dress in the morning, maintain a relatively clean house, engage in social activities, pursue dating, and so on. The list was employed for several weeks before storing away and only reviewing once or twice in the following year. Follow up one year later revealed that most, albeit not all, efficiency habits had been maintained (e.g., house cleaning habits were less consistently

followed).

Sample Task Analysis Single Doctor Chores Checklist

BATHROOM

Dust around the Mirror & Light & Window, including tops of the light and mirrors and window sills.

Dust, with a damp cloth, around the windowsills, on the front of the blinds and the back (reverse sides by adjusting slats up and down), along the tile division.

Tub and Toilet (bi-weekly)

Wipe down the bathtub walls, going to the ceiling.

- Use cleanser and a brush to quickly wipe grime in the tub, and scum stains on the wall. Use soapy brush to quickly wash inside shower curtain.
- ☐ With soapy disinfectant, clean toilet top, seat, behind the seat, and under the seat, along the walls to the floor Fold all tiles neatly on the tile racks Floor (weekly)

☐ Sweep the floor, including behind the toilet.

- ☐ Take out the rug and shake it off of the porch vigorously to remove dirt and dust. Remove and empty the garbage can.
- ☐ Mop the floor, using ammonia or Ciorox and be sure to get behind the toilet. Use rag to get floor behind the toilet.
- ☐ Be sure to get in all nooks & crannies along edges of floor, near tub, etc.

LIVING ROOM (bi-weekly)

- Dust Furniture, including all shelves
- Use broom/duster to dust along all baseboards, window sills, ceiling molding & fireplace mantle
- ☐ Sweep and Vacuum Under Rugs
- Sweep and Vacuum Floors Vacuum the couch, love seat, and chair

KITCHEN (weekly)

□ Empty Trash Can

☐ Clean Top of Refrigerator and Microwave (Wet Soapy Cloth)

□ Clean Inside Refrigerator and Microwave

☐ Wash Any Dishes and Clean Sink with Cleanser

☐ Clean Sink and Surrounding Countertop

Sweep, and then Mop Floor STUDY/OFFICE, DINING ROOM

BEDROOM

Dust dresser tops, around doors and windows, and along baseboard and

LAUNDRY

☐ 9:00 am Sat.: Clothes to Dry Cleaners before 10:am

☐ 5:00 pm Sat: Get clothes from Cleaners; Arrange closet □ 10:00 am Sunday: Launder socks, underwear, bathroom towels, bed

☐ 11:00 am Sunday: Use Dryer & Fold & replace clothes when done. Hang

Dry other clothes

☐ 11:20 am Sunday: Steam mist to refresh pants, shirts

☐ 9:00 pm Sunday: Fold, hang, put away dry clothes

Reference

Martelli, M. F., & Zasler, N. D. (pending completion). Practical Approaches to Neurobehavioral Rehabilitation: A handbook of coping strategies.

XVII International Congress of Psychology Grant and Award Announcements

APA Block Travel Grant Program

The American Psychological Association has applied to the National Science Foundation (NSF) for support to administer a block travel grant program for US participants in the scientific program of the XVII International Congress of Psychology in Stockholm, Sweden, July 23-28, 2000. NSF funding will be used exclusively for scholars working in areas that are central to the NSF mission-the description, modeling, and development of human mental and perceptual processes, including learning, reasoning, problem solving, concept formation, memory attention, and perception. At least half of the awards will be granted to investigators who are either students or within eight years of receiving their doctoral degree. Applications are now available from the APA Office of International Affairs, 750 First Street, NE, Washington, DC 20002, (202) 336-6025 (telephone); (202) 218-3599 (fax); international@apa.org (e-mail).

The Sylvia Scribner International Award for a **Doctoral Dissertation or Postdoctoral Project** Drawing on Her Life Work

The Sylvia Scribner Award Committee will award \$250.00 derived from the royalties of the volume of her selected papers published by the Cambridge University Press for the best dissertation or postdoctoral project completed within two years after the doctorate drawing on her research and writing in socio-historical processes and activity theory. Her areas of interest were: Community Psychology, Thinking and Cultural Systems, Literacy: The Meeting of Mind and Society, Cognitive Development: Social and Individual Thinking at Work, and Psychological Research as a Societal **Process**

The abstract should be submitted by the candidate or the sponsor in triplicate, along with a letter from the dissertation sponsor, or a CV for postdoctoral candidates. The award is to be presented at the 2000 International Congress of Psychology in Sweden.

All correspondence is to be sent to:

Aggie Scribner Kapelman 25 West 81 Street

New York, NY 10024, USA

Award committee: Rachel Joffe Falmagne, Laura W. Martin, Fernando Gonzalez Rey, Mariane Hedegaard, Robert Serpell, Aggie Scribner Kapelman, Ethel Tobach.